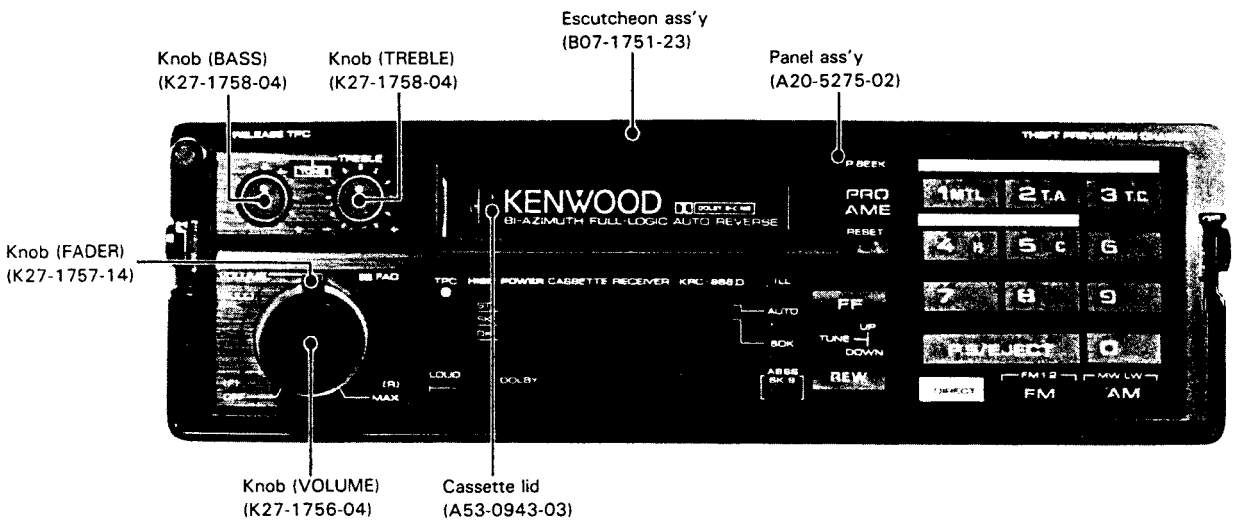
CASSETTE RECEIVER

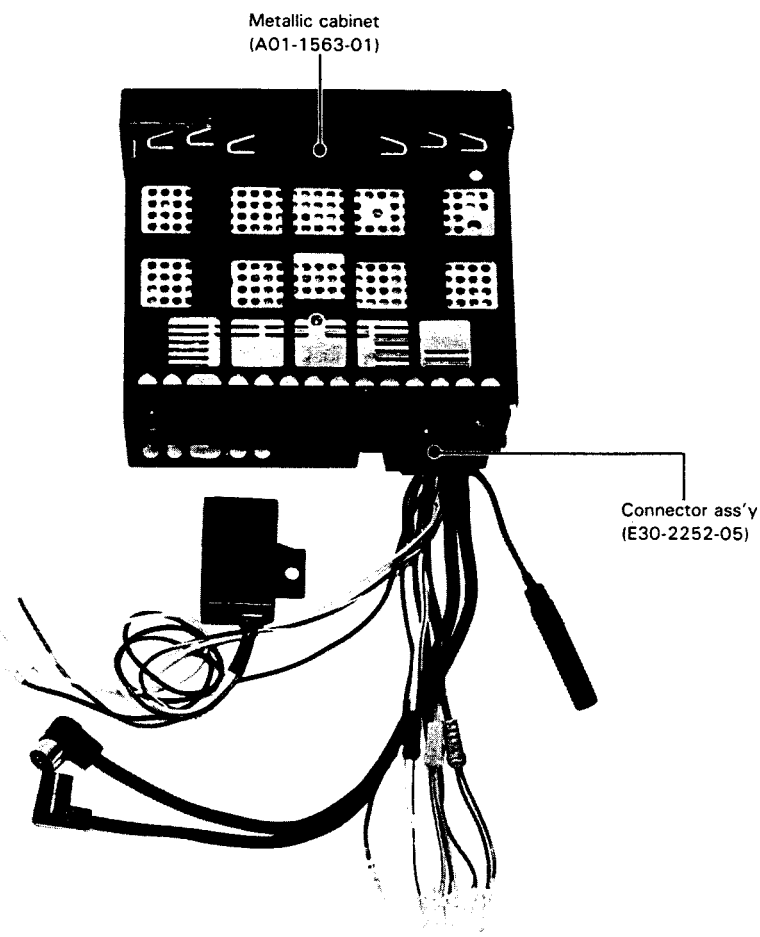
KRC-868D

SERVICE MANUAL

KENWOO 981

B51-3323-00(T)1141





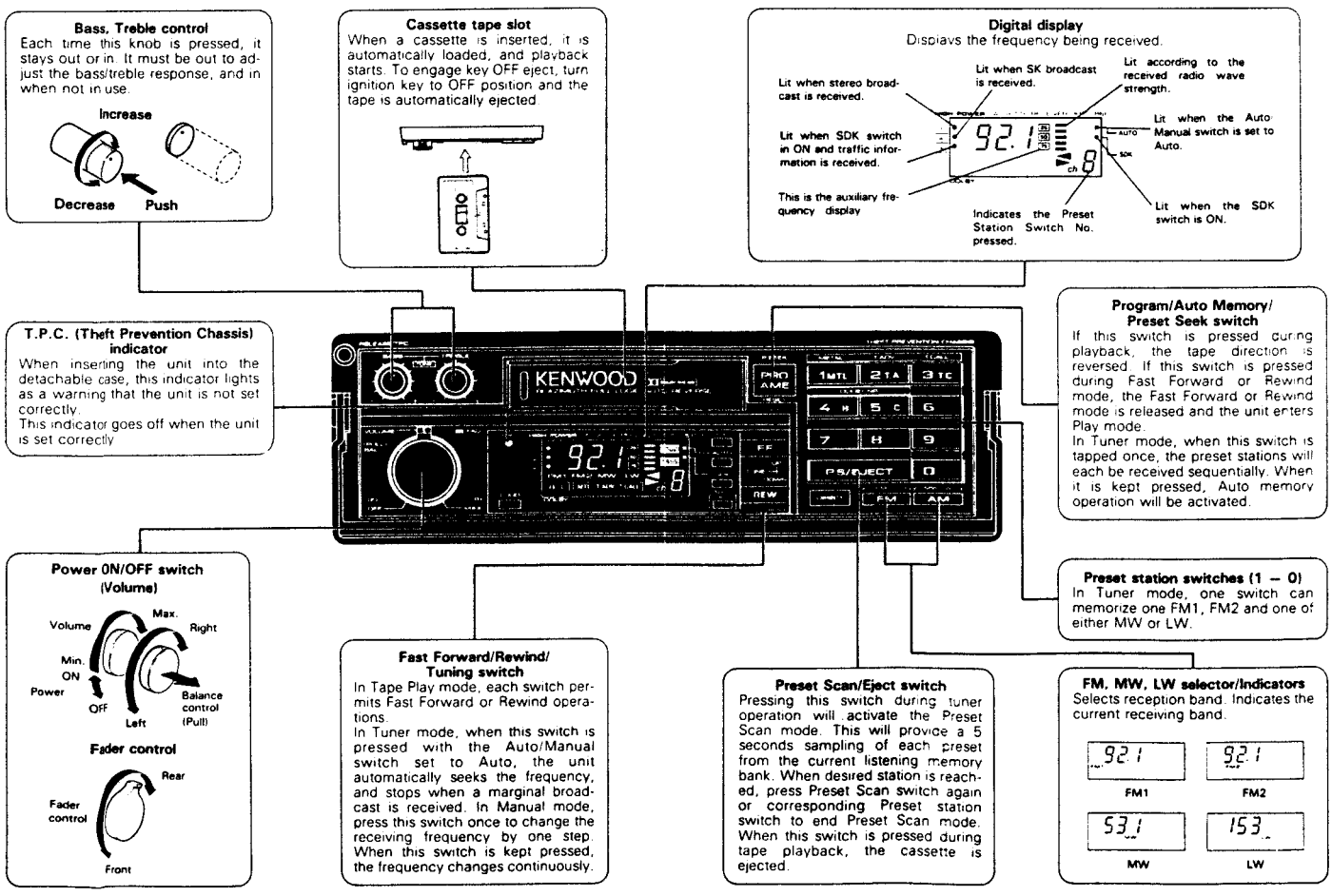
* Refer to parts list on page 49.

KRC-868D

CONTENTS/CONTROLS & INDICATORS

Contents

Controls & indicators

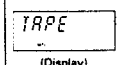


CONTROLS & INDICATORS

Illumination switch
This switch is used to select the illumination, between Green and Orange.

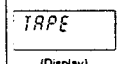
Reset button
When the installation and all the wirings are finished, press this button. Not usually used. However, when the microprocessor (microcomputer) malfunctions, press this button using a sharp-pointed object (such as a pencil).
When this button is pressed, the unit is reset to its initial state. Therefore, all the memories need to be adjusted.

Metal switch (Tape selector)



(Display)

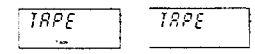
In Tape Play mode, position for Metal, Chrome, or High Bias tapes (CrO_2) (70 μS EQ).



(Display)

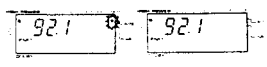
In Tape Play mode, position for Normal tapes (120 μS EQ).

Tape advance switch
In Tape Play mode, this switch allows you to locate the beginning of the next or current selection. Set to ON and Fast Forward or Rewind the tape.

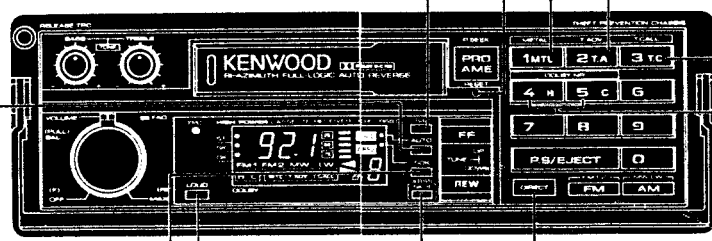


ON OFF

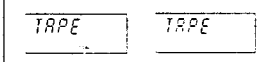
Auto/Manual switch
This switch is used to select the tuning mode between Auto (seek) and Manual.



Auto Manual



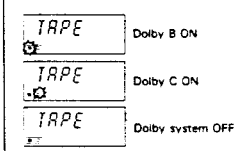
Tuner Call switch
In Tape Play mode, if this switch is ON, a radio broadcast can be heard during tape Fast Forward or Rewind operation. At this time, leave the Power switch on as well.



ON OFF

SDK switch
When this switch is set to ON, the SDK indicator illuminates and, if there is no SK station being received, the Up Seek operation is started to receive SK stations.

Dolby NR switches
In Tape Play mode, set this switch to ON when playing back a tape recorded with Dolby NR system.



Loudness switch
When listening at a low volume, press this switch. The loudness circuit will compensate for the human ear's decreased response.

ABSS (Automatic Broadcast Sensor System)/SK seek switch
In Tuner mode with this switch ON, when the signal of the receiving station drops below a threshold level, auto-tuning will start to seek the nearest higher frequency the station with a stronger signal.
During tape playback with the SDK switch ON, pressing this switch starts SK upward seek operation.

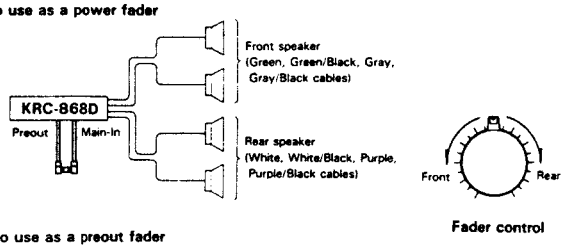
Direct tuning switch
When this switch is pressed, the frequency of a broadcast can be directly input with the numeric keypad to tune to the desired station.

KRC-868D

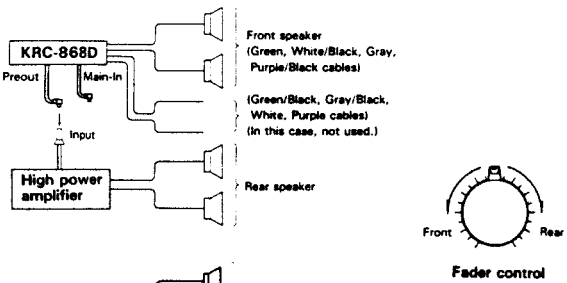
■ Fader control

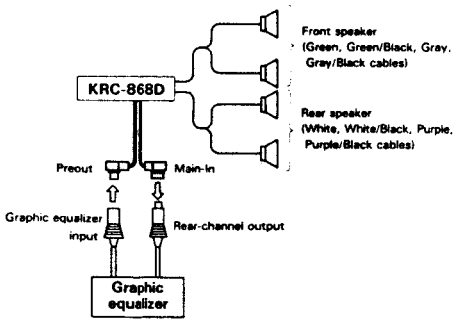
When a 4-speaker system is constructed using the fader control, 3 types of operation are possible as follows.

1. To use as a power fader

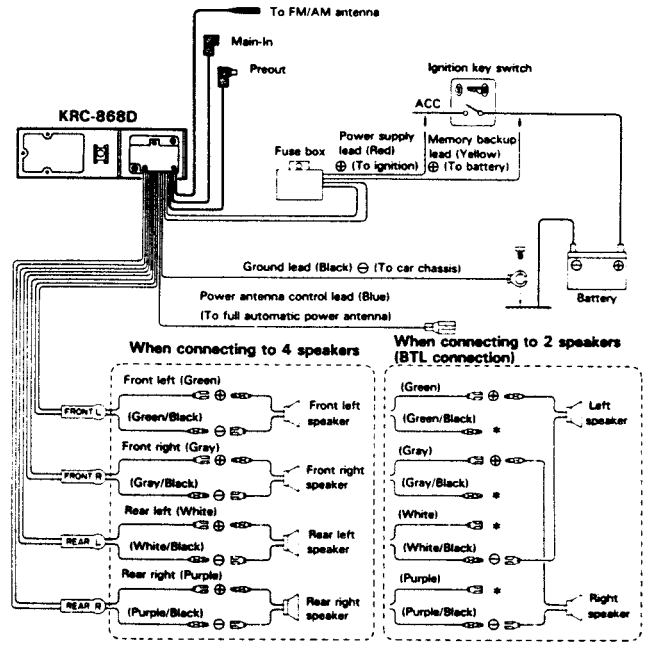


2. To use as a preout fader





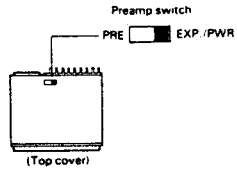
Connection



- As the unit uses BTL output, always connect the black stripe speaker wires to the ⊖ terminals of the speaker systems. Never let the black stripe speaker wires touch and never connect them to the chassis (ground). Do not let the speaker terminals come into contact with the chassis (ground).
  Insulate any unused output wire with vinyl tape to prevent a short circuit.

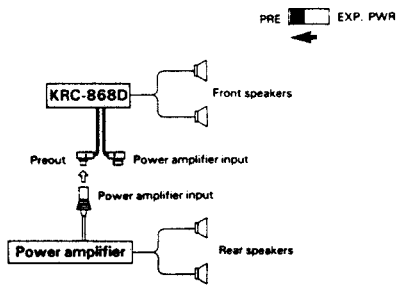
KRC-868D Connection diagrams for upgrading systems

■ The KRC-858 has a Preamp (preamp separation) switch which enables the system to be upgraded in various ways as follows:



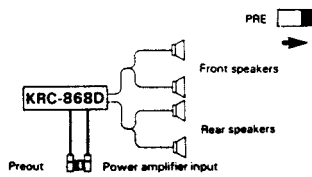
■When the switch is set to the PRE side:

• When a KENWOOD power amplifier is used



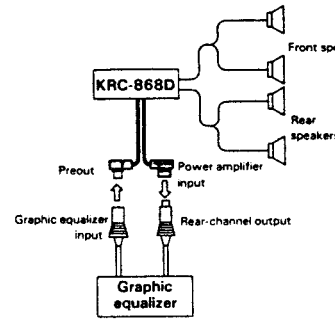
■ When the switch is set to the EXP./PWR position:

• When the built-in amplifiers are used (power fader control is possible)



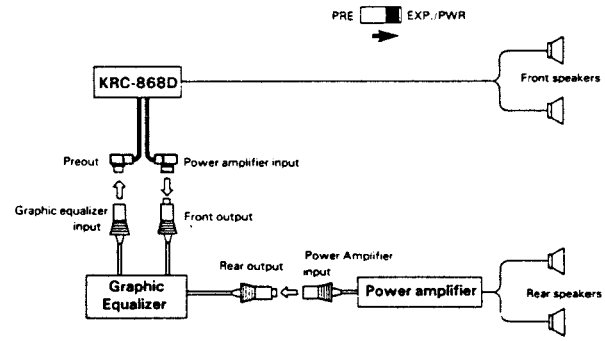
Note:
When the pre-fader control is set all the way to the front, sound will not be output. Set it to the center position.

• When a KENWOOD graphic equalizer is connected to this unit (Power fader control is possible)



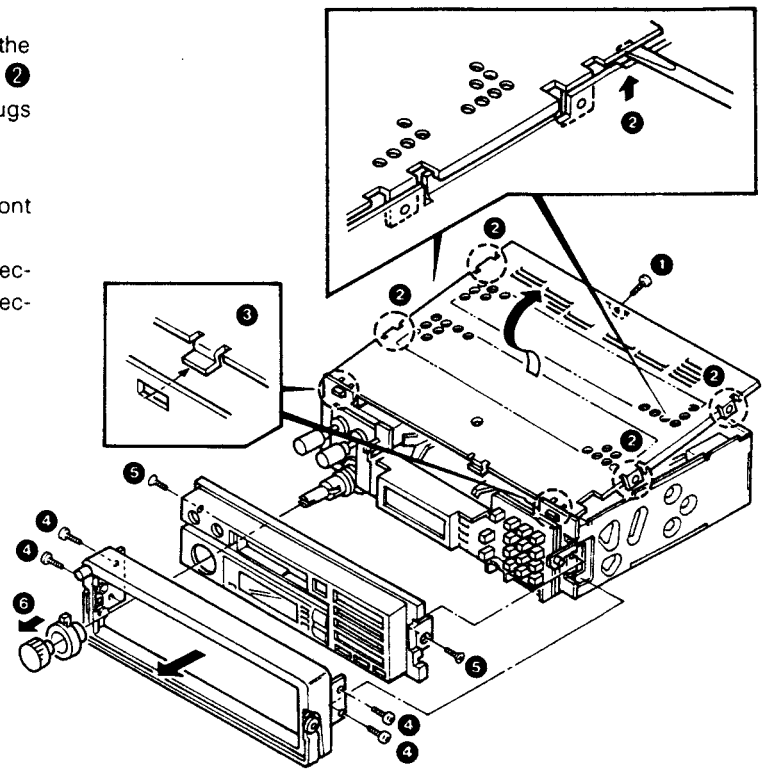
Note:
When the pre-fader control is set all the way to the front, sound will not be output. Set it to the center position.

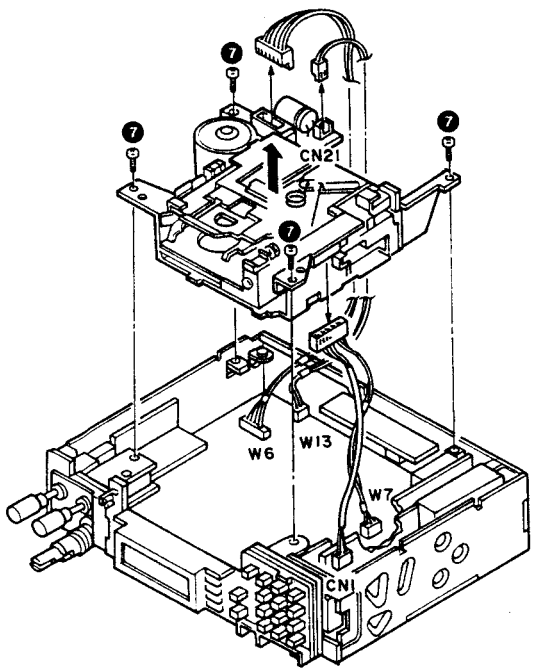
• When a KENWOOD amplifier and graphic equalizer are connected to this unit (Fader control is possible with the fader function provided on the Graphic equalizer)



DISASSEMBLY FOR REPAIR

1. Remove the screw ❶ at the rear of the top cover.
2. Using the flat-blade screwdriver, remove the hooks at the both sides of the top cover in the direction of the arrow. ❷
3. Remove the top cover paying attention to the two lugs located at the front side of the top cover. ❸
4. Remove the four screws ❹ retaining the handle.
5. Remove the two screws ❺ at the both sides of the front panel.
6. Remove the volume knob and the fader knob in the direction of the arrow, then remove the front panel in the direction of the arrow. ❻



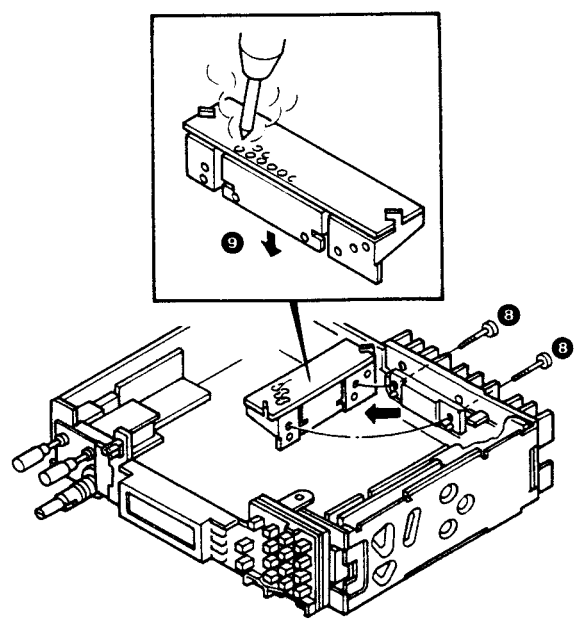


Removing the mechanism assembly

7. Remove the four screws ❼ retaining the mechanism ass'y, and remove the three connectors.

Removing the power IC

8. Remove the two screws ❽ retaining the power IC at the rear, and slide it in the direction of the arrow.
9. Unsolder the power IC, and remove it in the direction of the arrow. ❾



DISASSEMBLY FOR REPAIR/BLOCK & LEVEL DIAGRAM

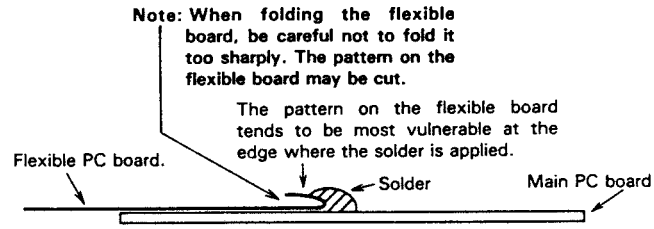
Removing and installing the flexible PC board

1. Removing

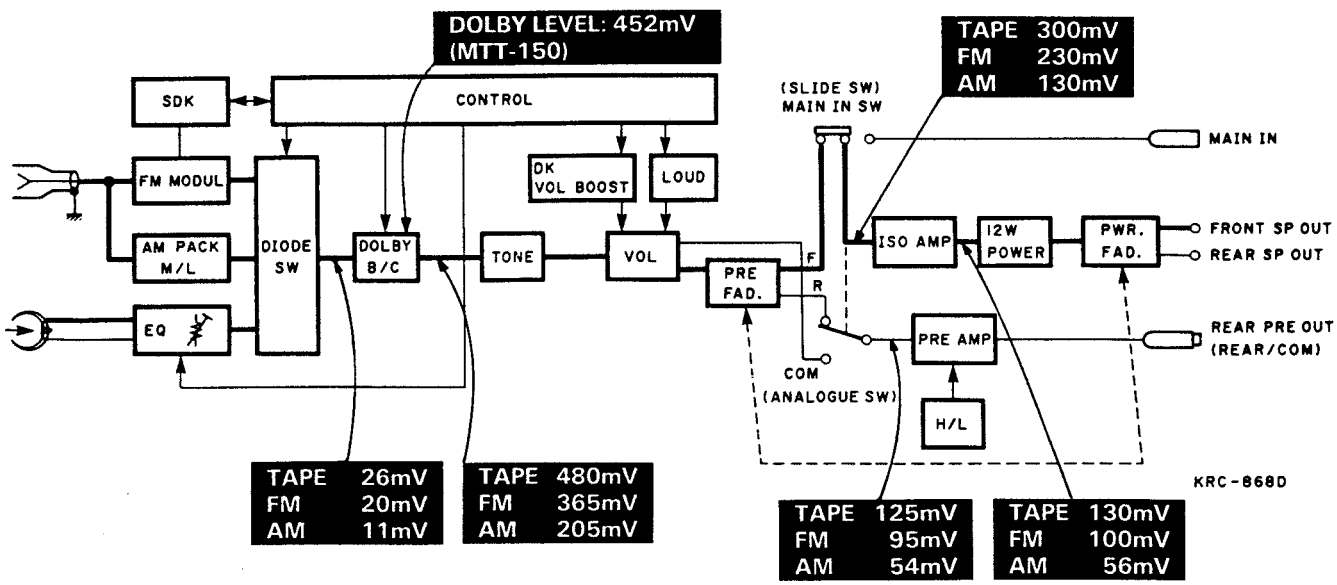
Using a soldering iron, heat the flexible board from one end to other for removal.

2. Installing

Bend the edge of the flexible board, and solder the flexible board onto the main PC board, as shown in the figure below.



Block & level diagram



CIRCUIT DESCRIPTION

Description of components

Tuner Unit (X05-3362-70, 2-71)

Device	Use and Function	Operation, Condition and Compatibility
IC1	FM IF AMP/DET	Equivalent to LA1140
IC2	NOISE CANCELLER/MPX	Equivalent to LA2110, LA3376
Q2	IF AMP	
Q3	ANRC BUFF	
Q4	FM BAND-WIDTH CONTROLL	Turns OFF when SEEK is engaged
Q5	ANRC DRIVE	
Q6	CRSC	

Preamp Unit (X08-2202-70, 2-71)

Device	Use and Function	Operation, Condition and Compatibility
IC1	TAPE EQ AMP	
IC2	DOLBY B/C	(NR-9550 or BH-2421)

Tone Unit (X11-2422-71, 2-73)

Device	Use and Function	Operation, Condition and Compatibility
IC1	TONE AMP	
IC2	POWER AMP	(AN7171K)
Q1 ~ 4	LOUDNESS SW	
Q5, 6	MUTE	
Q7 ~ 8	DK VOL-UP SW	Turns OFF when DK is ON
Q9	LOUDNESS CONTROL	
Q10 ~ 11	POWER AMP CONTROL	

Synthesizer Unit (X14-2162-70, 2-71)

Device	Use and Function	Operation, Condition and Compatibility
IC1	MICROPROCESSOR	Controls PLL IC (IC2), E-VOL IC and LCD DRIVER IC with serial data. Provides the KEY MATRIX and processes the key operations of the front panel. Mechanism control, EQ/DOLBY control, audio signal selection control, power control, ILL control, etc.
IC2	PLL IC	Comprising the PLL IC together with the AM PACK and the LOCAL OSC in the FM FRONTEND.
IC3,4	KEY SW	Accepts the ST/SK/DK display logic, F/R signal of TAPE, RST signal and PACK IN from external, then inputs the corresponding KEY MATRIX of the microprocessor.
IC5	GAP DETECTION IC for T-ADV	
IC6	BUFF AMP	Buffer for POWER AMP
IC7	BUFF AMP	PRE AMP for REAR
IC8	ISOLATION AMP for POWER AMP	
IC10	AUDIO SELECT Switch	Switches the inner signal from PREOUT to REAR/COM.
Q1, 2	BUFFER AMP for beep tone	
Q4	INV. for $\overline{\text{RST}}$ signal from external	
Q5	Buffer for Q4's output	
Q6	INV. for outputting the $\overline{\text{DK}}$ signal to external	
Q9, 10	10V R.P.S. (Regulated Power Supply) for ILL	

CIRCUIT DESCRIPTION

Device	Use and Function	Operation, Condition and Compatibility
Q11, 12	Switch for ILL	
Q13	Q12 inhibit Switch	
Q14 ~ 17	P-CON output circuit	
Q18, 19	5.6V, R.P.S.	
Q20	PWR ON 5.6V SW	
Q21	INV. for generating POWER ON "low" signal	
Q22	PWR ON ACC SW	
Q23, 24	R.P.S. for 9V	
Q25	Display inhibit Switch	
Q26	POWER ON MUTE generator	
Q27, 28	Exclusive OR circuit	
Q29, 30	AUDIO MUTE DRIVER	
Q31 ~ 34	ILL select circuit for DOUBLE FUNCTION Switch	
Q35, 36	ILL select circuit (regulated line)	
Q37 ~ 40	ILL select circuit (non-regulated line)	
Q41, 42	MOTOR DRIVER for mechanism	
Q43 ~ 45	Plunger Driver for mechanism	
Q46	DK "Low" signal generating switch	
Q47, 48	IGN (ignition) "high" detection circuit	
Q49	P-CON MUTE INV.	
Q50 ~ 52	Backup voltage detection comparator	
Q53 ~ 56	RST STBY circuit	
Q57, 58	Manual RST circuit	
Q59 ~ 67	Microcomputer output Inverter	
Q68 ~ 73	AM/FM 9V Switch	
Q74	SK LAMP ON logic inhibit Switch	
Q75	PACK IN 5V generating Switch	
Q76	ST LAMP ON Switch	
Q79	FM AFC time constant select logic generating Switch	
Q80	PLL LPF (low-pass filter) for FM	
Q81, 82	PLL LPF (low-pass filter) for AM	
Q83	FM SEEK Stop Switch	
Q84	SD. INV (inverter)	
Q85	AM SEEK Stop Switch	
Q86	Bias Cut Switch for AM Audio Diode	
Q88	AM PACK "BS" Switch	
Q89, 91	AM AGC Cut Switch	
Q90	AM S-METER BUFF	
Q94, 95	PRE OUT H/L Switch	
Q96	Internal Beep inhibit Switch	
Q97. 98	ANALOGUE Switch select logic generator	
Q99, 100	Bias Cut Switch for FM Audio Diode	

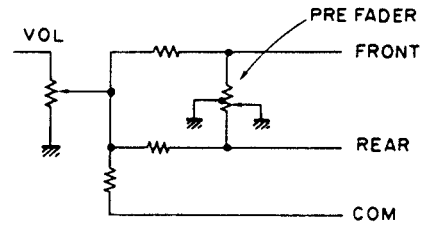
CIRCUIT DESCRIPTION

Circuit description

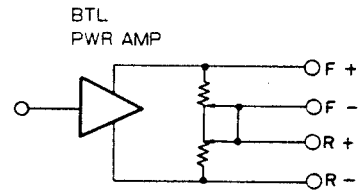
MAIN IN/PRE OUT (X14-2162-70)

This unit uses the rotary volume control. The outer shaft of the double-shaft volume is connected to the power fader and the pre fader, and they are interlocked. Also, the power amp is in BTL design while the speakers are connected in series.

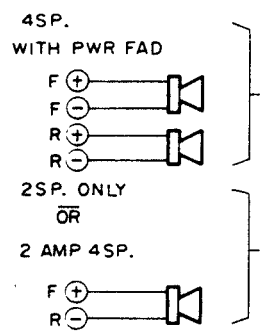
1) When driving the four speakers for front and rear channels using the internal power amp of this unit, adjust the power fader to balance the sound between front and rear channels.
   Therefore, the signal which is not affected by the rotation of the pre fader should be input to the power amp. Otherwise, no sound will be output from the speakers. (There might not be input signal to the power amp when the fader is set all the way to the rear channels.)
2) Use the power amp of this unit for the front channel speakers, and connect an optional external power amp to the PRE OUT connectors to drive the rear channel speakers.
   In this 2-amp, 4-speaker configuration, the front channel signal after passing through the pre fader should be input to the power amp of this unit, while the rear channel signal should be output to the PRE OUT connectors. If not, the front channel volume will not be affected even when the fader control is rotated.

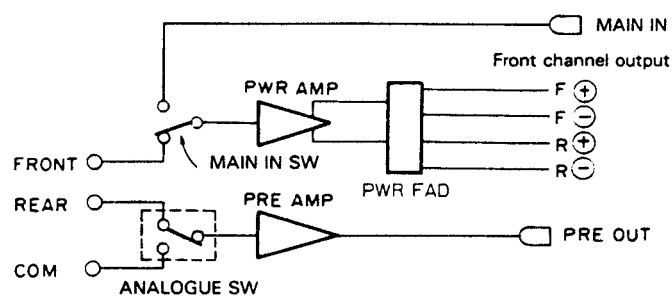


Pre Fader



Power Fader



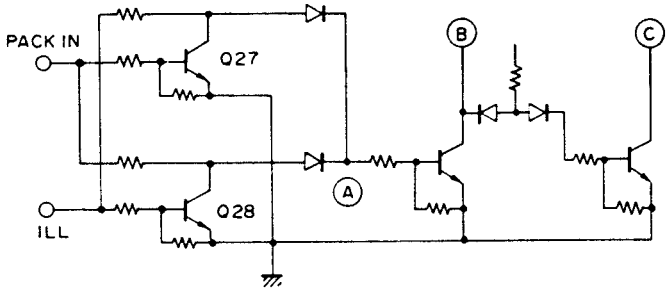


(Fig. 1)

CIRCUIT DESCRIPTION

ILL Select Circuit for DOUBLE FUNCTION SWITCH

With this unit, the entire display illumination color can be changed to green or amber with the ILL switch on the front panel. However, the color of the double function switches providing two differing functions (one in tape mode and another in radio mode), is designed to be different from that of the rest of the display for easier distinction.



Initially, the illumination of the display is green. That is, the "ILL" in the table below is at low level.

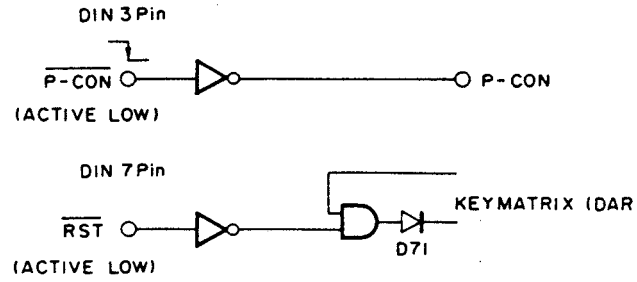
Whole Illumination	MODE	PACKIN	ILL	Ⓐ	Ⓑ	Ⓒ	$\overline{Ⓑ}$	$\overline{Ⓒ}$
GREEN	RADIO	L	L	L	H	L	L	H
GREEN	TAPE	H	L	H	L	H	H	L
AMBER	RADIO	L	H	H	L	H	H	L
AMBER	TAPE	H	H	L	H	L	L	H

Actually, since the switches of Q33 and Q34 (INV.) are turned ON before Ⓑ and Ⓒ, when the negative signals $\overline{Ⓑ}$ and $\overline{Ⓒ}$ drive the amber LED and green LED respectively, the illumination of the whole display and that of the double function keys are reversed in the tape mode, as shown in the table below.

Whole Illumination	MODE	DOUBLE FUNCTION KEY ILL
GREEN	RADIO	GREEN
GREEN	TAPE	AMBER
AMBER	RADIO	AMBER
AMBER	TAPE	GREEN

Mutual Reset Operation

1) During operation of this unit, when the external $\overline{RST}$ signal becomes low, the DAR (Digital Audio RST) key is turned ON and IC1 (microcomputer) turns the P-CON output (active low) to OFF (becomes high). Therefore, P-CON becomes low.
(However, since the unit is set to the tuner mode, operation of the tuner is possible.)



2) When the tape is loaded, the microcomputer turns the P-CON output to ON (becomes low). So, the P-CON is inverted to high. Then the external RST signal is inverted to high so that the DAR key is turned OFF.
3) When 1) occurs during the operation 2), the tape will be ejected.

CIRCUIT DESCRIPTION

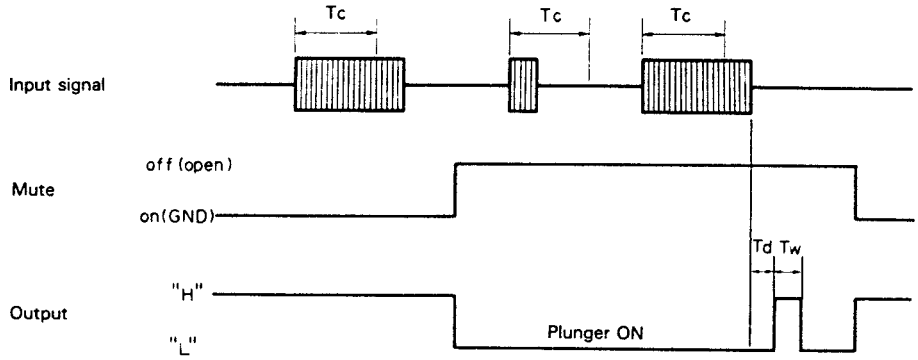
BA3708F Gap Detection IC

1. Outline

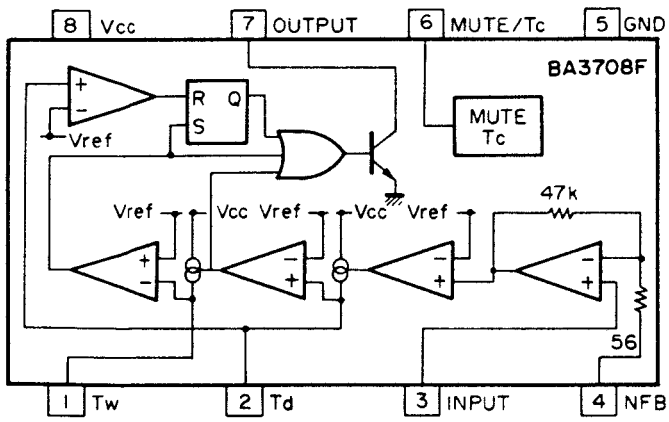
The BA3708F is the gap detection IC for the blank sections between tunes (taped selections). Designed to search for the beginning of tunes desired for play. This function operates on 3 Volts.

When the level of the signal is higher than the input judgment level Vin and the signal length is longer than the music signal the music signal detection time Tc, this IC outputs a pulse, with a width of Tw, after a pulse delay time Td has elapsed from the end of that signal. The output signal is the open collector signal which can drive the plunger directly.

It also has a mute function which forcibly stops the detection operation.



Block Diagram



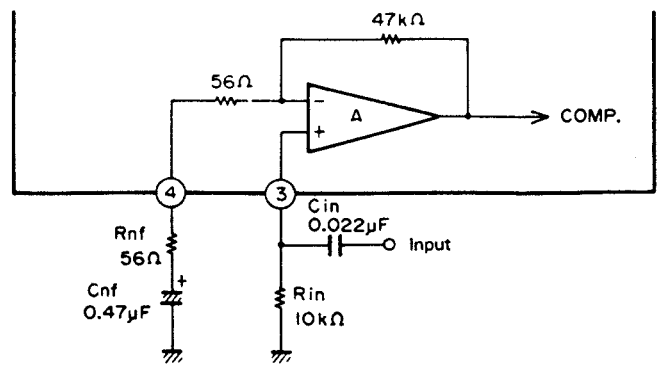
2. Connection of each pin

Pin No.	Pin Name	Operation Description
1	Tw (pulse width) pin	Connects the time constant Cw Rw
2	Td (pulse delay time) pin	Connects the time constant Cd Rd
3	Input pin	Inputs the audio signal (bias resistance is required)
4	NFB pin	Connects CR for NFB (DC cut is required)
5	GND pin	Connects to GND
6	Tc (music signal detection time) mute pin	Connects Cc and the mute switch
7	Output pin	Drives the plunger directly
8	Vcc pin	2.0 V – 5.0 V

3. Operations of each circuit

3-1. Input amp

The input amp consists of the differential amp of the PNP transistor, and the input pin (pin 3) should be directly grounded with the bias resistance of Rin. If this Rin is set to a larger value, the input offset occurs and the operation of the unit may become unstable. Special attention must be paid to this. The gain and the frequency response of this amp is determined by Cin, Rin, and Cnf, Rnf of the NFB pin (pin 4).



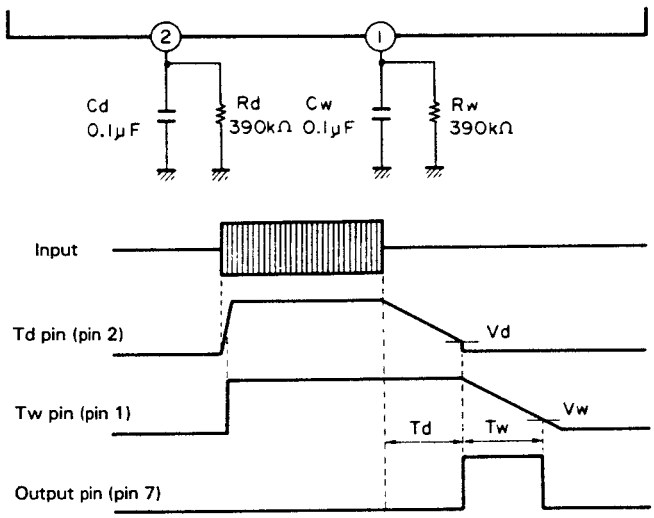
CIRCUIT DESCRIPTION

3-2. Pulse delay time Td and pulse width Tw

The time Td after the input signal stops, the pulse signal having the pulse width of Tw is output from the output pin (pin 7).

The values of Td and Tw are determined by the time constant of CR which is connected to pin 2 and pin 1 respectively.

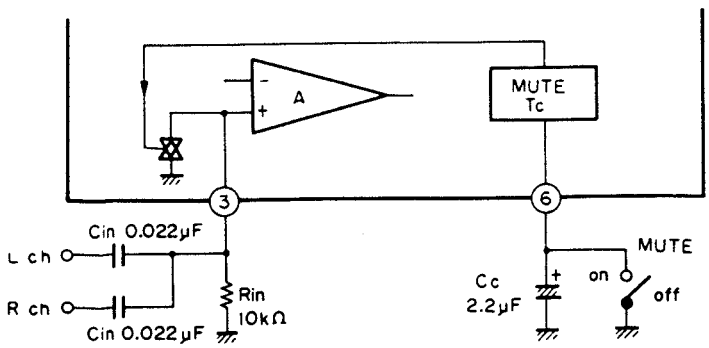
$$Td\ (ms) \fallingdotseq 1.7 \times Cd\ (\mu F) \times Rd\ (kohm)$$
$$Tw\ (ms) \fallingdotseq 1.6 \times Cw\ (\mu F) \times Rw\ (kohm)$$



3-3. Music signal detection time Tc and the mute circuit

To prevent malfunction against any noise in the gap between tunes, a music signal detection function is incorporated into this unit. With this function, the plunger drive pulse is output only when the detected signal is longer than the music signal detection time Tc. Therefore, the pulse is not output when the detected signal is short (noise is present). The length of Tc is determined by the value of the capacitor Cc which is connected to pin 6.

Also, when pin 6 is grounded, the mute circuit is engaged to stop the between-tunes gap detection operation. In this case, the input resistance of the input pin (pin 3) is lowered (to approx. 1 kohm) to prevent deterioration of the crosstalk between channels of the L/R both-channel input system.

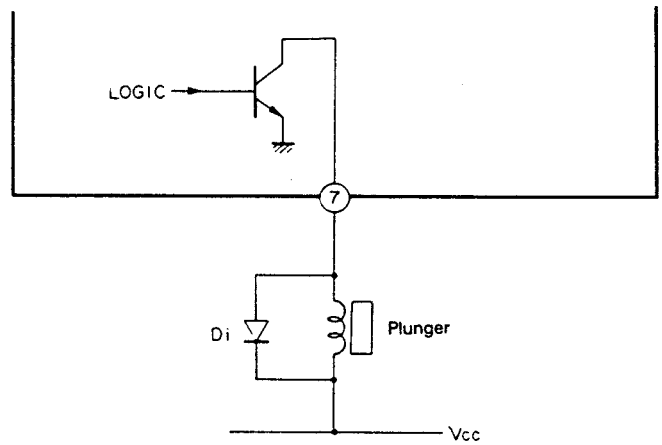


3-4. Output circuit

The output circuit is an open collector design, and is suitable for the situation in which the plunger is turned ON during searching operation. The maximum allowable driving signal is one having a pulse width Tw of 200 ms, duty cycle of 30 % and an output current Io of 100 mA.

For the mute function, the output signal is turned OFF forcibly and the signal level becomes high.

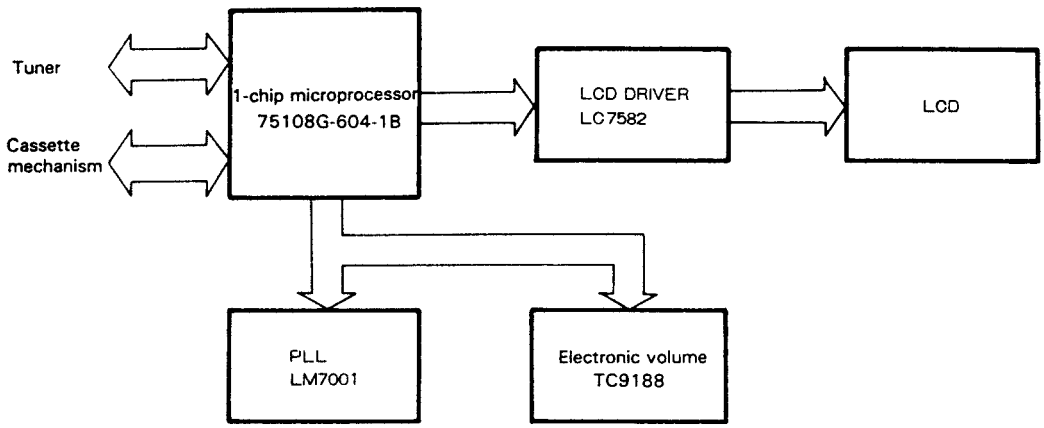
Since the IC might be damaged due to the counter electromotive force generated in the solenoid of the plunger, a discharging diode should be inserted in parallel to the solenoid.



CIRCUIT DESCRIPTION

μPD75108G-604-1B Microprocessor IC

1. Outline, Features and Structure



- Controls the PLL IC SANYO LM7001.
- Operates the LCD driver LC7582 with the signal having 1/2 bias in 1/2 duty.
- Operates the Volume, Tone, Balance, Fader, ATT (Attenuator), Loudness, and Boost controls, etc. using the electronic volume TC-9188. (Setting of Valid/invalid selection is made possible.)
- Clock function while displaying 12-hour system.
- Direct access using the numeric (10-key) keypad.
- Control function exclusively for the mechanism (CDS-50).
- Mutual reset function with the digital audio.
- SDK function
- Assuring the 2V backup function.

2. Term definition

- **Tuner Call:**
  This is the function which allows listening to the radio while fast-forwarding or rewinding a tape.
- **Tuner Call ON:**
  This is the condition that the tuner call function is possible.
- **During Tuner Call:**
  This is the condition that the tuner call function is ON and the tape is fast-forwarded or rewound and, the radio sound should be output.
- **Last Channel:**
  When the unit is turned OFF or is switched to tape mode, the frequency of the last received station is stored in the memory for each band (AM/FM).
  When recalling a preset channel, the exact same frequency of the previously set station will be recalled. However, the "last channel's" frequency is not included in the preset channels.
- **Channel Edge**
  Lowest channel edge: Single channel
  Highest channel edge: 6-ch, 8-ch or 0-ch according to the microprocessor design (for each destination area).
- **SDK mode:**
  The FM band status in which SK and DK detection is possible.
- **DK Input:**
  DK signal input when SDK signal is present.
- **During DK Interrupt:**
  In radio mode, the volume level is raised.
  In tape mode, the radio interrupts with a raised volume level. Generally, the "DK Interrupt" function is active when a DK input is detected. However, since DK Interrupt may continue even when the DK input signal momentarily ceases.

CIRCUIT DESCRIPTION

3. Channel Plan

Receiving Frequency Range, Channel Spacing, Reference Frequency, and Intermediate Frequency

	Band	Receiving frequency range	Channel spacing		Reference frequency	Intermediate frequency	Local
			Auto	Manual			
U.S.A.	FM	87.9 ~ 107.9 MHz	200 kHz	—	25 kHz	10.7 MHz	Upper
	MW	530 ~ 1620 kHz	10 kHz	—	10 kHz	450 kHz	Upper
Europe	FM	87.5 ~ 108.0 MHz	50 kHz	25 kHz	25 kHz	10.7 MHz	Upper
	MW	531 ~ 1611 kHz	9 kHz	9 kHz	9 kHz	450 kHz	Upper
	LW	153 ~ 281 kHz	9 kHz	1 kHz	1 kHz	450 kHz	Upper
Middle and near East	FM	87.5 ~ 108.0 MHz	50 kHz	25 kHz	25 kHz	10.7 MHz	Upper
	MW	531 ~ 1611 kHz	9 kHz	—	9 kHz	450 kHz	Upper
Japan	FM	76.1 ~ 89.9 MHz	100 kHz	—	25 kHz	10.7 MHz	Lower
	MW	522 ~ 1629 kHz	9 kHz	—	9 kHz	450 kHz	Upper
		f_{RF}			fref	IF	

Setting method of value N

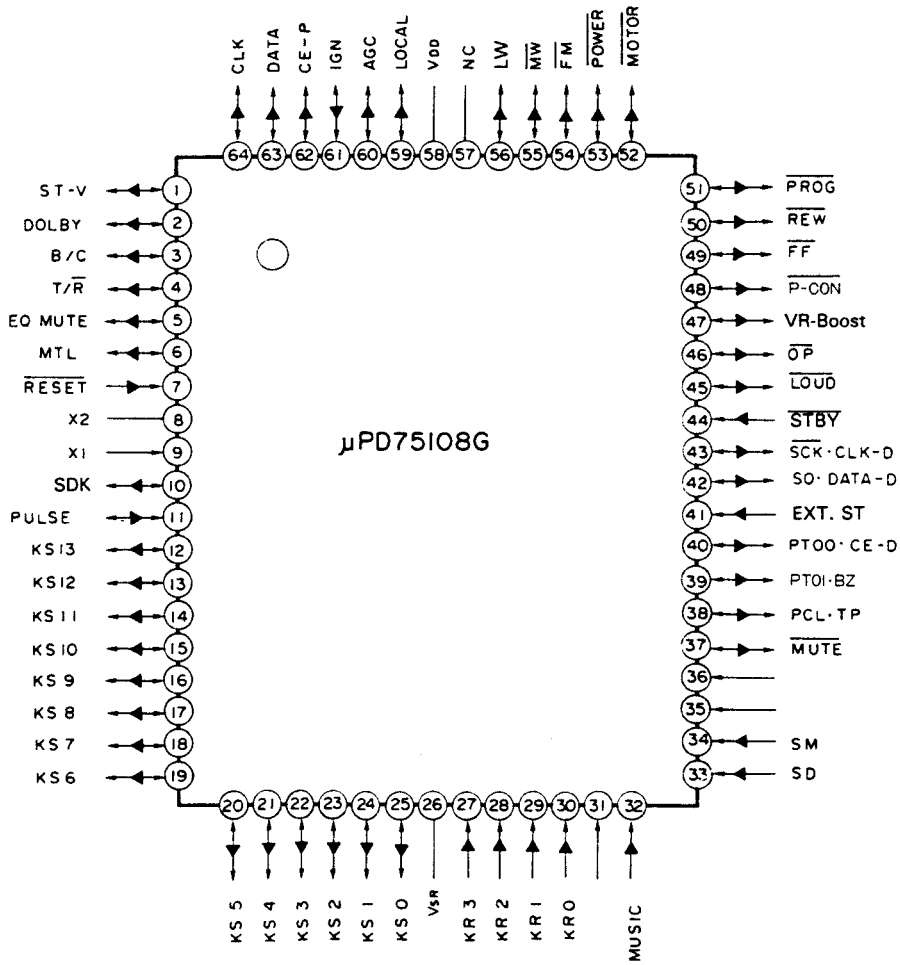
$f_{OSC} = f_{RF} - IF$ (Lower Local)

$f_{OSC} = f_{RF} + IF$ (Upper Local)

$$N = \frac{fosc}{fref}$$

N: Number of divisions of the program divider

4. Port Assignment



* The pull-up resistor for the mask OP (pin 12 - 14) is not incorporated.
* The power-ON reset circuit and the power-On flag for the mask OP are not incorporated.

CIRCUIT DESCRIPTION

Output Port Description

Pin No.	Pin Name	Operation Description
1	ST-V	Strobe Pulse (for electronic volume). Active high.
2	DOLBY	DOLBY NR. Active high. (Should be OFF during tuner call or when DK interrupt is engaged.) Outputs the signal when DOLBY is ON. This is effective in the tape mode only. (In one case, it turns only DOLBY B ON, and in the other case, it turns ON for both DOLBY B and C.)
3	B/C	DOLBY C NR. Active high. (Should be OFF during tuner call or when DK interrupt is engaged.) Outputs the signal when DOLBY C is ON. This is effective in the tape mode only.
4	T/R	Tape/Radio selector. Tape: High In the tape mode, this outputs the high level signal. However, during tuner call or DK interrupt is engaged, it becomes low. (This output signal must not be cease due to tape/radio mode switching during DK interrupt operation.)
5	EQ MUTE	Tape Equalizer Mute Active high. In the tape mode, this outputs the high level signal when the tape is fast-forwarded or rewound or in the pause mode.
6	MTL	Metal Tape Position Active high. In the tape mode, the signal is output when the METAL function is ON.
10	SDK	SDK Switch Active high. Outputs the signal when the SDK is ON (in either tape or radio mode). (Output signal should not cease even when the mode is changed over with SDK ON.)
12 25	KS	Key Source signal Active high.
37	$\overline{\text{MUTE}}$	Audio Mute output Active low.
38	T.P	Test Point, System Clock Active high. This outputs the pulse which is divides the reference oscillator frequency into 8. Used for fine adjustment of the reference clock. It is output only when the ACC is OFF and the power is OFF.
39	BZ	Buzzer output Active high. This outputs a pulse of 2.7 kHz for 60 ms when required. This buzzer tone may be output twice with an interval of 190 ms.

Pin No.	Pin Name	Operation Description
40	CE-D	CHIP ENABLE for DISPLAY Active "H"
42	DATA-D	SERIAL DATA for DISPALY Active "H"
43	$\overline{\text{CLK-D}}$	CLOCK PULSE for DISPLAY Active "L"
45	$\overline{\text{LOUD}}$	Loudness Active low. With power ON, when the loudness switch is set to ON, this output becomes low.
46	$\overline{\text{OP}}$	Option Active low. With power ON, when the option is set ON, this port becomes low.
47	VR-BOOST	Volume Boost output Active low. Enable only when power is ON. Becomes low when the noise switch is ON (only when no SDK signal is present.) Becomes low during DK interrupt (only when the SDK signal is present.)
48	$\overline{\text{P-CON}}$	Outputs the power control signal (for the subsequent models). Active low.
49	$\overline{\text{FF}}$	Outputs the fast forward solenoid control signal. Active low. Effective only in the tape mode.
50	$\overline{\text{REW}}$	Outputs the rewind solenoid control signal. Active low. Effective only in the tape mode.
51	$\overline{\text{PLAY/PROG}}$	Outputs the Play/Program solenoid control signal. Active low. Effective only in the tape mode.
52	$\overline{\text{MOTOR}}$	Motor Drive Active low. Effective in the tape mode only. It becomes low when the motor is rotated.
53	$\overline{\text{POWER}}$	Power Control of this unit. Active low. It is always low with the power ON.
54	$\overline{\text{FM}}$	FM Band output Active low. During tuner call in both radio and tape modes, this outputs a low level signal when the band is set to FM with the SDK signal ON
55	$\overline{\text{MW}}$	MW Band output Active low. During tuner call in both radio and tape modes, this outputs a low level signal when the band is set to MW with the SDK signal ON.

CIRCUIT DESCRIPTION

Pin No.	Pin Name	Operation Description
56	LW	LW Band output Active low. When LW is available: This outputs a low level signal when the radio band is set to LW in both the radio and tape modes. When LW is not available: During tuner call in both radio and tape modes, this outputs a low level signal when the "AUTO" is ON, regardless of the band switch.
59	LOCAL	Local/DX output Local: high, DX: low During tuner call in both radio and tape modes, this outputs a high level signal when the local switch is set ON.
60	AGC CUT	Output for AGC Cut Active high.
62	CE-P	Chip Enable for PLL Outputs the serial data of the PLL IC, and CE signal output. Active high.
63	DATA	Data for PLL & Volume Outputs the data for PLL IC, electronic volume and serial data. Active high.
64	CLK	Clock-pulse for PLL & Volume Outputs the clock (CLK) pulse for PLL IC, electronic volume and serial data. Active high.

Input Port Description

Pin No.	Pin Name	Operation Description
7	$\overline{\text{RESET}}$	Reset input Active low. Input signal for initialization or releasing the STBY (standby) mode.
27 30	KR	Key Return input Active high.
11	PULSE	Reel Pulse detection input Active high. Used for rotation detection of the mechanism.
32	MUSIC	Music Signal Sensor Active high. $Vfh = 5 \times \frac{7+0.5}{16} = 2.34375V$ Low: input voltage 0<L<0.3 High: input voltage 2.0<H<VDD Variable area 0.3<X<2.0 When this input signal is inverted from high to low during tape winding, the fast-forwarding/rewinding mode is released, then the unit enters play mode.
33	SD	Station Detector Active high. $Vfh = 5 \times \frac{7+0.5}{16} = 2.34375V$ Used to search for broadcasting stations in auto tuning mode, and for start detection for ABSS search operation. And when this port is at low level, the illumination of the signal meter will go off. Low: input voltage 0<L<0.3 High: input voltage 2.0<H<VDD Variable area 0.3<X<2.0
34	SM	Signal Meter input A/D input. Lights up the 5-point bar-type level meter according to the input voltage. This functions only when SD is high.
41	EXT RST	External Reset input Active high. On the reset signal input, when this input signal is high, the unit is always initialized.
44	STBY	Standby Mode detection input Active low, INT After interruption occurs or after reset is released, when this port is low, the unit enters the standby mode. After reset is released, when this port is high, the standby mode is released.
61	IGN	Ignition Switch detection input Active high. Goes high when the ignition key is turned ON. If this input signal is low, power is always OFF. If this input signal is high, switching the power between ON and OFF is made possible. However, if the power switch using the touch-sensor key is not used, power is turned ON when this input signal becomes high.

CIRCUIT DESCRIPTION

5. Key Matrix

	KR 3 (27)	KR 2 (28)	KR 1 (29)	KR 0 (30)	
KS 0 (25)	V DOWN (Electronic volume)	V UP (Electronic volume)	V ATT (Electronic volume)		Momentary keys
1 (24)	TONE (Electronic volume)	POSITION (Electronic volume)	LOUD		
2 (23)	SDK (E)		FM	AM	
3 (22)	LOCAL	AUTO	ABSS	P-SCAN/ EJECT	
4 (21)	SA/PLAY. PROG			OP	
5 (20)			DOWN/REW.	UP/FF	
6 (19)	1/METAL	2/T-ADV	3/T-CALL	4/DOLBY-B	
7 (18)	5/DOLBY-C	6	7	8	
8 (17)	9	0	DIRECT		
9 (16)		PACK IN EJECT	FWD/RVS	SKL (E)	Alternate keys
10 (15)	DAR	DK (E)	SK (E)	ST	
11 (14)	POWER A	POWER B			Initializing diode switch
12 (13)	BAND A	BAND B	FM2 BAND	SDK (E)	
13 (12)			DOLBY	E VOL	

The value in the bracket ( ) shows the pin number.

CIRCUIT DESCRIPTION

Momentary Keys

Name	Operation Description
ATT	Attenuate Switch Depending on the initial setting, this key may also be used for POWER ON/OFF function. In this case, reading is performed at the power OFF? (boot down?).
V UP	Volume Up Switch Depending on the initial setting, this key may also be used for the POWER ON function.
V DOWN	Volume Down Switch Depending on the initial setting, this key may also be used for the POWER OFF function.
LOUD	LOUDNESS SW
POSITION	Balance/Fader adjustment, Display select switch
TONE	Bass/Treble adjustment, Display select switch
AM	AM Band call switch If "LW" band is provided, this is also used for selection between MW and LW band.
FM	FM Band call switch
SDK	SDK mode call key Calling of the SDK mode is also possible in tape mode.
P-SCAN/EJECT	P-Scan key in radio mode, and Eject key in tape mode.
ABSS	ABSS ON/OFF Key (SDK OFF, RADIO MODE) SK SEEK Key (SDK ON, TAPE or RADIO MODE)
AUTO	Auto Tuning ON/OFF key. This is effective only in radio mode.
LOCAL	Local ON/OFF key. Effective during T-Call or SDK mode in either radio or tape mode.
ME	PRESET MEMORY ENABLE Key
SEEK	Up Seek key. Functions as SK Seek in SDK mode.
SA/PLAY PROG	Sequential Access key in radio mode. PLAY/PROGRAM key in tape mode.
UP/FF	Auto/Manual Up tuning key in radio mode. Fast-Forward key in tape mode.
DOWN/REW	Auto/Manual Down tuning key in radio mode. Rewind key in tape mode.

Name	Operation Description
1/METAL	1-ch recall and memory write key in radio mode. Metal tape ON/OFF key in tape mode.
2/T.ADV	2-ch recall and memory write key in radio or tape. Tape Advance ON/OFF key in tape mode.
3/T-CALL	3-ch recall and memory write key in radio mode. Tuner Call ON/OFF key in tape mode.
4/DOLBY-B	4-ch recall and memory write key in radio mode. DOLBY B-type select key (changeable by the initial setting of "DOLBY") in tape mode.
5/DOLBY-C	5-ch recall and memory write key in radio mode. DOLBY C-type select key (changeable by the initial setting of "DOLBY") in tape mode.
6 ~ 0	Channel recall and memory write keys for 6-ch to 0-ch in radio mode. However, the keys from 7 through 0 may be invalid depending on the initial setting of "CHA" and "CHB".
DIRECT	Direct Access Enable key This key is effective only when all 10 numeric keys are enabled by the initial setting of "CHA" and "CHB".
OP	OPTION SW

Alternate Keys

Name	Operation Description
FWD/RVS	Forward/Reverse detection switch ON: Forward, OFF: Reverse
EJECT/PACK IN	Pack In/Eject operation detection switch Active high.
ST	Stereo broadcast detection input Active high.
D.A.R.	Digital Audio Reset Digital audio operation detection input. Active high.
SK	SK station detection input (concerning SK Seek operation) Active high.
DK/Noise	DK broadcast/external noise detection input Active high.
SKL	SK station detection (for lighting the SK display) Active high.

CIRCUIT DESCRIPTION

Initial Setting of Diode Switches

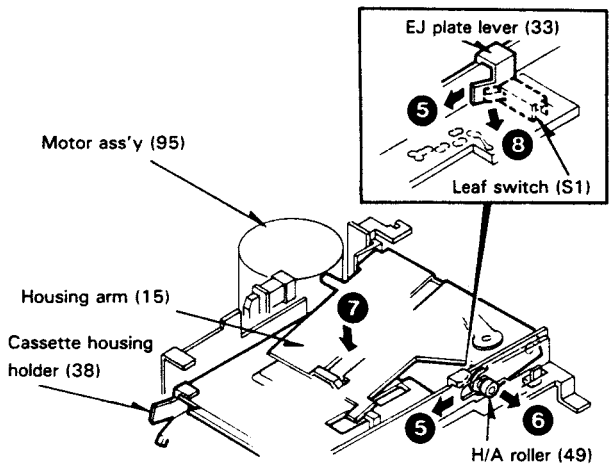
<table>
<tr><th>Name</th><th>Function Description</th></tr>
<tr><td>BAND A
BAND B</td><td>Selection of model version (for different destination)
<table><tr><th>BAND A</th><th>BAND B</th><th>Destination</th></tr><tr><td>OFF</td><td>OFF</td><td>U.S.</td></tr><tr><td>OFF</td><td>ON</td><td>Japan</td></tr><tr><td>ON</td><td>OFF</td><td>Europe (with LW band)</td></tr><tr><td>ON</td><td>ON</td><td>Middle East, and Europe (without LW band)</td></tr></table>* However, if the unit is set for the version for U.S., Middle East or Europe (without LW), it can be changed again, by the user, within these three settings when POWER ON.</td></tr>
<tr><td>CH A
CH B</td><td>Selection of the number of the preset channels
Selections for the direct access function
<table><tr><th>CH A</th><th>CH B</th><th>Number of channels</th><th>Direct access function</th></tr><tr><td>OFF</td><td>OFF</td><td>10</td><td>Available</td></tr><tr><td>OFF</td><td>ON</td><td>8</td><td>Not available</td></tr><tr><td>ON</td><td>DON'T CARE</td><td>6</td><td>Not available</td></tr></table></td></tr>
<tr><td>POWER A
POWER B</td><td>Selection of Power ON/OFF method
<table><tr><th>POWER A</th><th>POWER B</th><th>Power ON/OFF method</th></tr><tr><td>OFF</td><td>OFF</td><td>By means of VATT key.
POWER key is always invalid.</td></tr><tr><td>ON</td><td>OFF</td><td>Not by the momentary key.
POWER key is always invalid.
By means of the IGN port.</td></tr></table></td></tr>
<tr><td>FM 2 BAND</td><td>Selection of the number of memories for FM
<table><tr><th>FM 2 BAND</th><th>Number of bands</th><th>FM BAND display</th><th>Number of memories</th></tr><tr><td>OFF</td><td>2</td><td>FM 1, 2</td><td>Double of the number selected by "CH A" and "CH B"</td></tr></table></td></tr>
<tr><td>SDK</td><td>Selection of SDK function, and Noise—Volume Boost function
This function is effective only when the BAND A and BAND B are set to the destination for Europe, Middle East or Europe (without LW).
Therefore, when the unit is changed from the U.S. version to the Middle East or Europe (without LW) by the user, this function is invalid.
<table><tr><th>SDK</th><th>SDK function</th><th>Noise—Volume Boost function</th></tr><tr><td>ON</td><td>Available</td><td>Not available</td></tr><tr><td>OFF</td><td>Not available</td><td>Available</td></tr></table></td></tr>
<tr><td>DOLBY</td><td>Selection system of the DOLBY NR switch
<table><tr><th>DOLBY</th><th>Switching system</th></tr><tr><td>ON</td><td>Without DOLBY-C</td></tr><tr><td>OFF</td><td>DOLBY-B/C mutual reset</td></tr></table></td></tr>
<tr><td>E VSL</td><td>ON/OFF selection of the electronic volume control function
<table><tr><th>E VOL</th><th>Electronic volume control function</th></tr><tr><td>ON</td><td>Available</td></tr><tr><td>OFF</td><td>Not available</td></tr></table></td></tr>
</table>

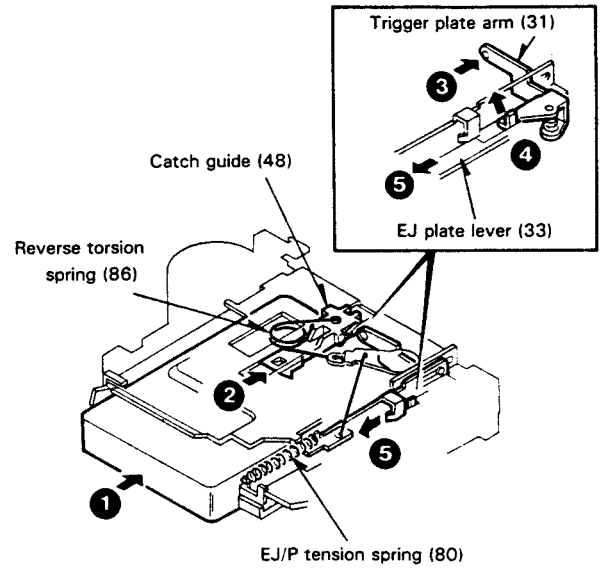
MECHANISM DESCRIPTION

1. Loading

If the cassette tape is pressed by the finger, the catch guide (48) is pushed in and the reverse torsion spring (86) is set on the loading side. If the cassette is pushed into the end, the trigger plate arm (31) rotates and the EJ plate lever (33) is released. Then, EJ/P tension spring (80) pulls the EJ plate lever (33) and the housing arm (15) and cassette housing holder (38) are pushed down through the H/A roller (49). The head plate (803) is also moved to the mode plate lever ass'y (9). The leaf switch (S1) is also pressed. At this time, the plunger solenoid (103) is turned on and the motor ass'y (95) rotates.

Note : The number in the parentheses refer to the Ref. Nos. in the exploded view. (P. 47)





MECHANISM DESCRIPTION

2. PLAY

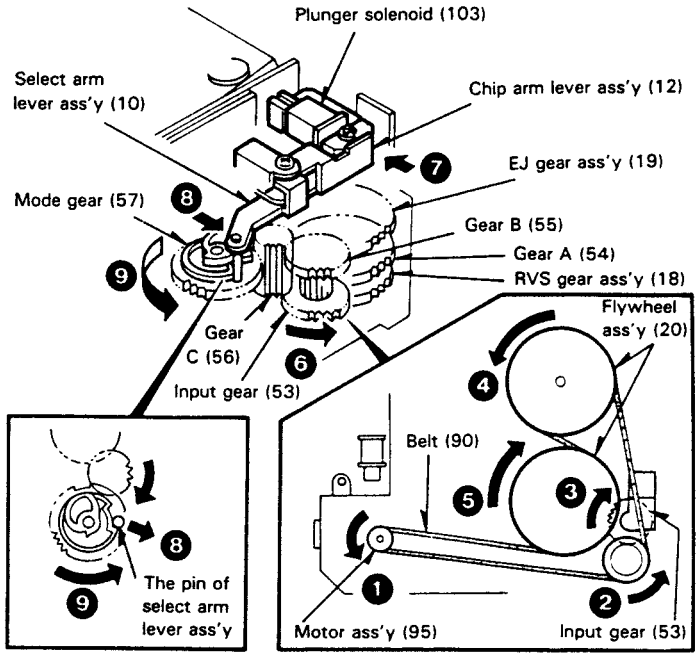
The rotation of the motor ass'y (95) is transmitted through the belt (90) to the flywheel ass'y (20) to rotate the input gear (53). Next, gear A (54), gear B (55), and gear C (56) rotate. Then, the EJ gear ass'y (19) rotates to move the select arm lever ass'y (10) to the plunger solenoid (104, 105) side. As the result, the chip arm lever ass'y (12) is attracted by the plunger solenoid (103).

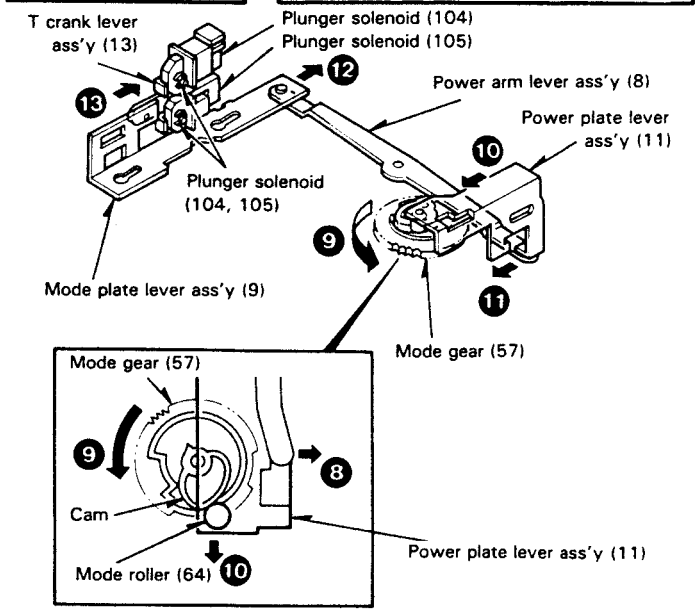
The other pin of the select arm lever ass'y (10) releases the mode gear (57). The mode gear (57) is rotated by gear C (56), and the power plate lever ass'y (11) is moved forward by the cam of the mode gear (57) through the mode roller (64). At the same time, the mode plate lever ass'y (9) is moved backward through the power arm lever ass'y (8). The mode plate lever ass'y (9) is attracted by the FF and REW solenoid (104, 105) through the T crank lever ass'y (13).

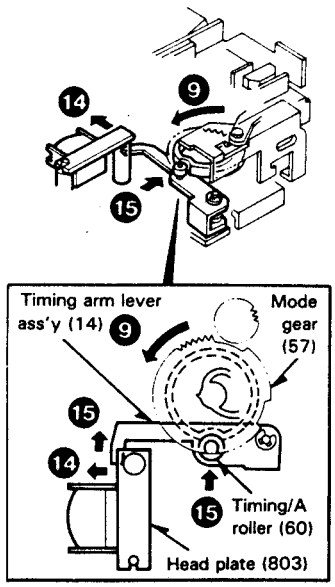
After the above operation, timing/A roller (60) of the timing arm lever ass'y (14) under the mode gear (57) is put in the groove of the cam of mode gear (57) to lock the gear. By this operation of the timing arm lever ass'y (14), the head plate (803) is pulled by the H/P tension spring (72) to the PLAY position.

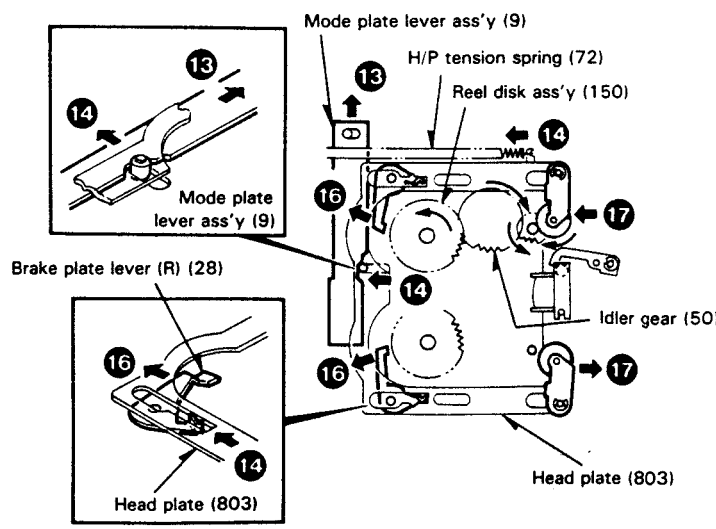
The rotation of the flywheel ass'y (20) is transmitted from the inside gear to the idler gear (50) and reel disk ass'y (150). The brake plate levers (27, 28) applied to the reel disk ass'y (150) has been released by the head plate. In the PLAY mode, the mode gear (57), EJ gear ass'y (19), and RVS gear ass'y (18) are locked by the notches.

Note : If the power tension spring (84) is removed, the mechanism can be checked easily.





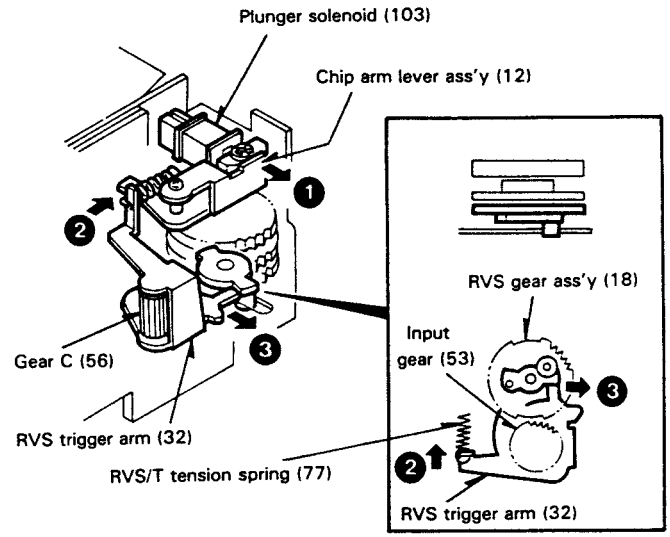


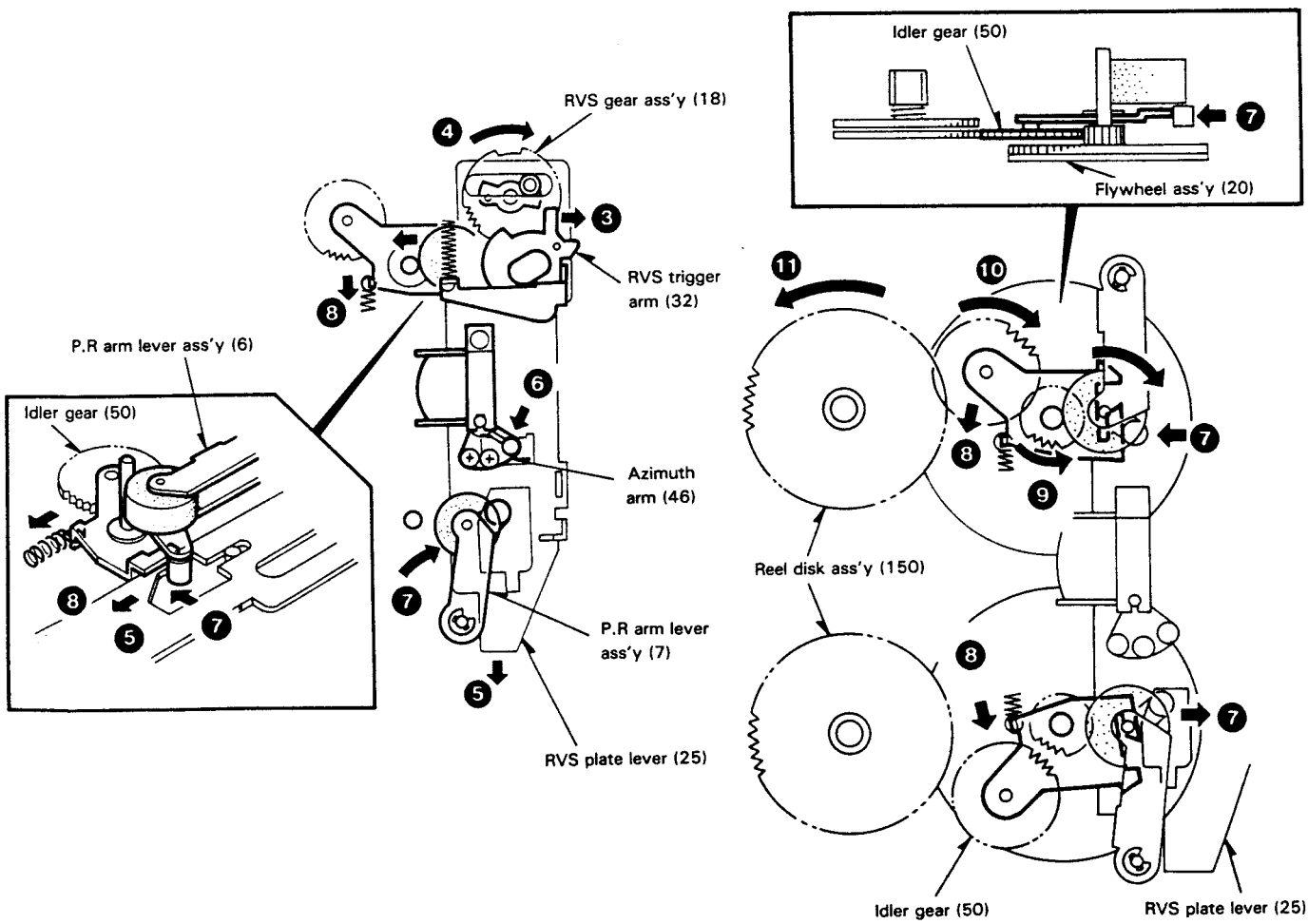


MECHANISM DESCRIPTION

3. PROG.

If the program button is pressed, the plunger solenoid (103) is turned off and the chip arm lever ass'y (12) is moved outward. At the same time, the RVS trigger arm (32) releases the RVS gear ass'y (18) through the RVS/T tension spring (77). Then, the RVS gear ass'y (18) is rotated a half turn by the input gear (53), and the RVS plate lever (25) is moved. At this time, the RVS trigger arm (32) is set to the lock side by the RVS gear ass'y (18), then the chip arm lever ass'y (12) is attracted again by the plunger solenoid (103) because of the force of the chip arm tension spring (78).
The RVS plate lever (25) moves the head slide switch (S2), azimuth arm (46), and P.R arm lever ass'y (6, 7). The P.R arm lever ass'y (6, 7) moves the idler gear (50) through the idler gear arm of the main chassis ass'y (801).





MECHANISM DESCRIPTION

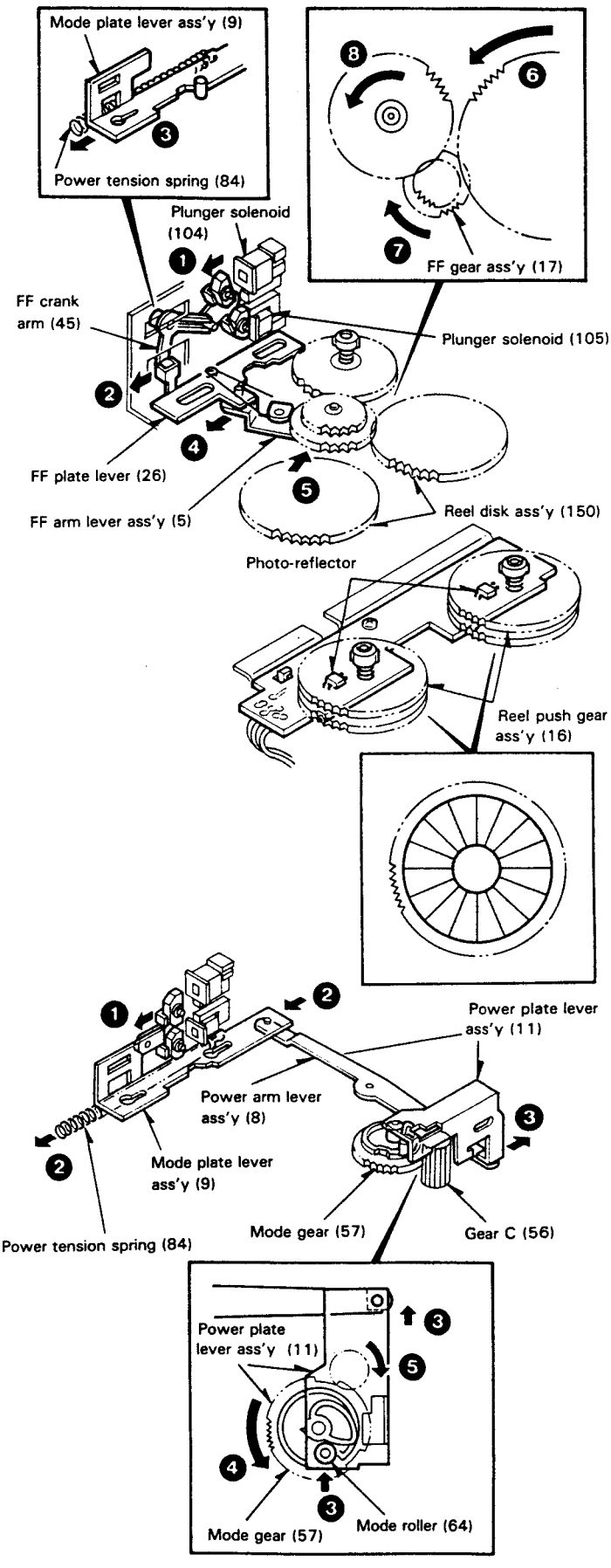
4. FF/REW

If FF or REW button is pressed, the plunger solenoid (104) or (105) is turned off depending on the direction of PLAY, and the T crank lever ass'y (13) is rotated by the force of the power tension spring (84). At this time, the head plate (803) is moved a little backward by the movement of the mode plate lever ass'y (9). The FF crank arm (45) is rotated by the T crank lever ass'y (13) to slide the FF plate lever (26) and rotate the FF arm lever ass'y (5). Then, the rotation of the flywheel ass'y (20) is transmitted to the reel disk ass'y (150) through the FF gear ass'y (17).

If the PLAY/PROG. button is pressed, both plunger solenoid (104, 105) are turned off and the head plate (803) is returned to the position after the loading, then it is reset to the PLAY mode by the rotation of the motor ass'y (95). The tape advancing and index scanning operation is performed similarly.

5. Automatic reverse

The rotation is sensed by the photo-reflector on the back side of the reel push gear ass'y (16) of the reel disk ass'y (150). The sensed signal is input to the mechanism control IC to start the program.



6. Eject

If the eject button is pressed, all the plunger solenoid are turned off. The head plate (803) is moved backward by the force of the power tension spring (84). The power plate lever ass'y (11) is pushed back through the power arm lever ass'y (8), and the mode gear (57) is meshed with gear C (56) by the mode roller (64).

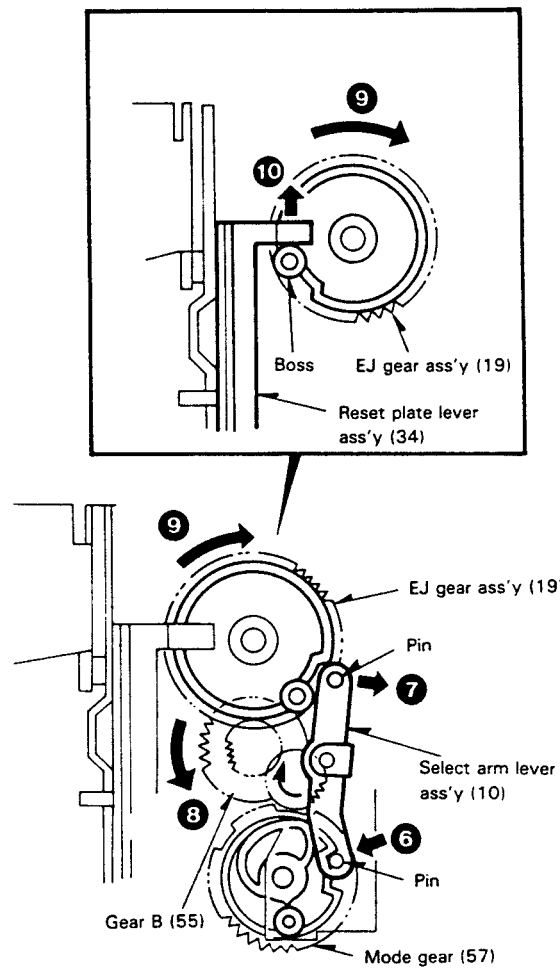
MECHANISM DESCRIPTION

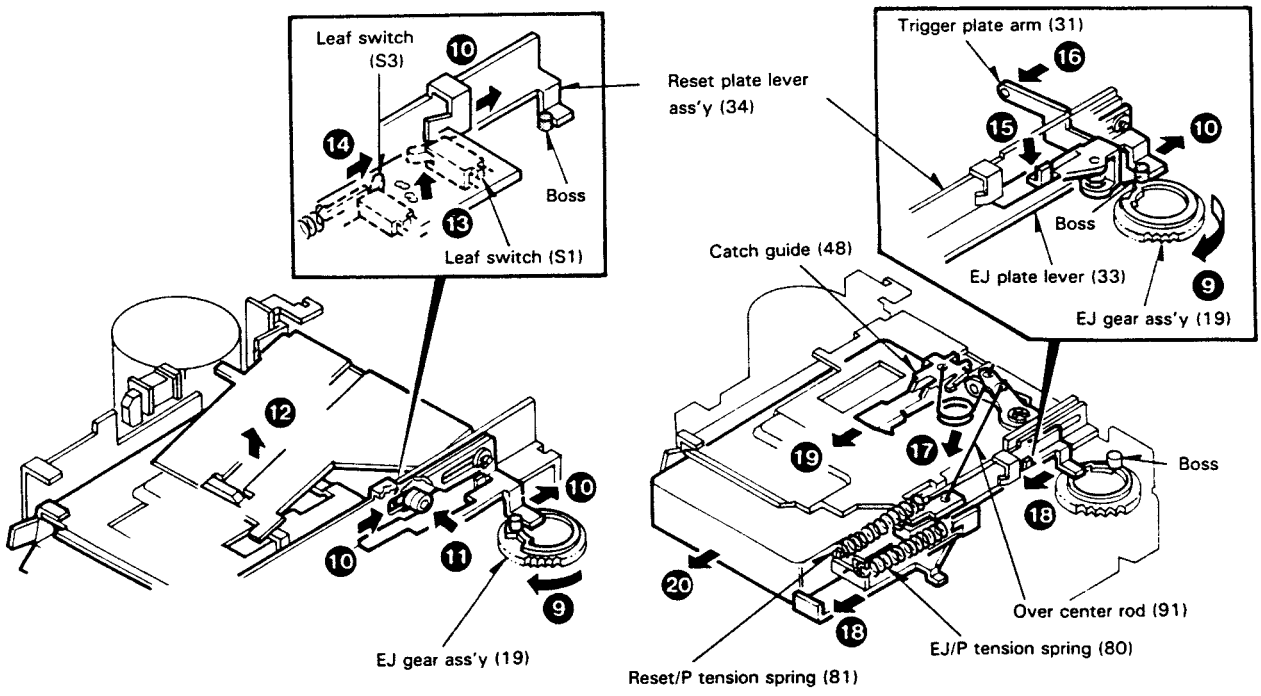
The mode gear (57) is rotated and the pin of the select arm lever ass'y (10) is put in the groove of the peripheral cam of the mode gear. Then, the EJ gear ass'y (19) is meshed with gear B (55) and rotated by releasing the other pin of the select arm lever ass'y (10). The reset plate lever ass'y (34) is moved back by the upper boss of the EJ gear ass'y (19) to turn on the leaf switch (100) for ejection to turn on the motor.

At the same time, the EJ plate lever (33) is also moved back and fixed to the trigger plate arm (31) through the tension spring (87) for preventing an overload. While the reset plate lever ass'y (34) is moving back, the catch guide (48) is pushed forward through the over center rod (91). At this time, the cassette houding holder (38) is lifted by the EJ plate lever (33).

Then, the EJ gear ass'y (19) rotates. When its boss is parted from the reset plate lever ass'y (34), the reset plate lever ass'y (34) is returned to the forward position by the reset/P tension spring (81). At this time, the over center rod (91) is pulled, and the catch guide (48) is moved forward to discharge the cassette.

Even if the power switch is turned off, the loading operation can be performed, but the mechanism is set to the ejection mode immediately, because the loading mechanism is turned on by the leaf switch (S1) and the motor is turned on by the leaf switch (S3) to start the ejection operation.





ADJUSTMENT

Set the controls and switches as follows.

BALANCE	:center position	LOUD	:OFF	LOCAL	:OFF
FADER	:center position	T・ADV	:OFF	AUTO	:OFF
BASS	:center position	METAL	:OFF		
TREBLE	:center position	DOLBY NR	:OFF		

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER(RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRIMINATOR	(A) 98.1MHz 0 dev 60dBμ(ANT input)	Connect the DC voltmeter between pins of CN3	FM 98.1MHz	L1 (X05)	0V	(a)
2	SEPARATION	(C) 98.1MHz 1kHz,±33.5kHz dev Pilot:±7.5kHz dev Selector:L or R 60dBμ(ANT input)	(B)	FM 98.1MHz	VR4 (X05)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
3	ASNC	(C) 98.1MHz 1kHz,±33.5kHz dev Pilot:±7.5kHz dev Selector:L or R 35dBμ(ANT input)	(B)	FM 98.1MHz	VR1 (X05)	Separation 10dB	
4	SEEK STOP LEVEL	(A) 98.1MHz 1kHz,±40kHz dev 20dBμ(ANT input)	-	FM SEEK:ON 98.1MHz	VR2 (X14)	STOP	
5	SOFT MUTE LEVEL	(A) 98.1MHz 1kHz,±40kHz dev 60dBμ→No input	(B)	FM 98.1kHz	VR3 (X05)	Output Noise level -25dBμ (When not add any signal to ANT terminal)	
6	S-METER	(A) 98.1MHz ±40kHz dev 20dBμ(ANT input)	-	FM 98.1kHz	VR5 (X14)	LIGHT "1"	
SDK SECTION							
7	DK LEVEL	(E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dBμ(ANT input)	Connect the DC voltmeter between pins of CN2	FM 98.1MHz SDK:OFF	L1 VR1 (X13)	Maximum	(b)
8	SDK VOLUME LEVEL	(E) 98.1MHz 1kHz,±40kHz dev SK 5.33% DK 30% BK 60% 60dBμ(ANT input)	(B)	FM 98.1MHz VOLUME:0	VR4 (X11)	400mV	(c)
AM SECTION							
(1)	STOP LEVEL	(D) 990kHz 400Hz,30% mod 35dBμ(ANT input)	-	AM 990kHz	VR3 (X14)	STOP	
(2)	S-METER	(D) 990kHz 400Hz,30% mod 35dBμ(ANT input)	-	AM 990kHz	VR4 (X14)	LIGHT "1"	
CASSETTE DECK SECTION							
[1]	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L CH/R CH or FWD/RVS becomes maximum.	(d)
[2]	PLAYBACK LEVEL	MTT-150	Connect a AC voltmeter to CN4.	TAPE PLAY	VR1(L) VR2(R) (X08)	452mV	(e)
etc.							
<1>	BEEP LEVEL	-	(B)	VOL:Min	VR1 (X14)	200~300mVp-p	

REGLAGES

Régler les controles et les boutons comme suit.

BALANCE	:position centre	LOUD	:OFF	LOCAL	:OFF
FADER	:position centre	T・ADV	:OFF	AUTO	:OFF
BASS	:position centre	METAL	:OFF		
TREBLE	:position centre	DOLBY NR	:OFF		

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
1	DISCRIMINATEUR	(A) 98,1MHz 0 dév 60dBμ(Entrée ANT)	Raccorder le voltmètre CC entre les deux broches de CN3.	FM 98,1MHz	L1 (X05)	0V	(a)
2	SEPARATION	(C) 98,1MHz 1kHz.±33,5kHz dév Pilote:±7,5kHz dév Selecteur:L ou R 60dBμ(Entrée ANT)	(B)	FM 98,1MHz	VR4 (X05)	Le régler de manière à ce que la diaphonie de L à R et de R à L devienne minimum.	
3	ANRC	(C) 98,1kHz 1kHz.±33,5kHz dév Pilote:±7,5kHz dév Selecteur:L ou R 35dBμ(Entrée ANT)	(B)	FM 98,1MHz	VR1 (X05)	Séparation 10dB	
4	NIVEAU DE CHERCHER D'ARRET	(A) 98,1MHz 1kHz.±40kHz dév 20dBμ(Entrée ANT)	–	FM CHERCHER:ON 98,1MHz	VR2 (X14)	ARRET	
5	NIVEAU DE SOFT MUTE	(A) 98,1MHz 1kHz.±40kHz dév 60dBμ→Entrée NO	(B)	FM 98,1MHz	VR3 (X05)	Bruit de niveau de sortie -25dBμ (Sous non correspondance d'antenne.)	
6	INDICATEUR DE CHAMP	(A) 98,1MHz ±40kHz dév 20dBμ(Entrée ANT)	–	FM 98,1MHz	VR5 (X14)	"1" Allume	
SECTION SDK							
7	NIVEAU DE DK	(E) 98,1MHz 0 mod SK 5,33% DK 30% BK 60% 60dBμ(Entrée ANT)	Raccoder le voktmètre CC entre les deux broches de CN2.	FM 98,1MHz SDK:OFF	L1 VR1 (X13)	Maximale	(b)
8	NIVEAU DE SDK VOLUME	(E) 98,1MHz 1kHz.±40kHz dév SK 5,33% DK 30% BK 60% 60dBμ(Entrée ANT)	(B)	FM 98,1MHz VOLUME:0	VR4 (X11)	400mV	(c)
SECTION MA							
(1)	NIVEAU D'ARRET	(D) 990kHz 400Hz. 30% mod 35dBμ(Entrée ANT)	–	AM 990kHz	VR3 (X14)	ARRET	
(2)	INDICATEUR DE CHAMP	(D) 990kHz 400Hz. 30% mod 35dBμ(Entrée ANT)	–	AM 990kHz	VR4 (X14)	"1" Allume	
SECTION DU MAGNETPHONE							
[1]	AZIMUTH	MTT-114 10kHz	(B)	Lecture bande	Vis d'azimut de tête	Ajuster l'azimut pour que chaque L-CH/R-CH ou FWD/RVS devienne maximum.	(d)
[2]	NIVEAU DE LECTORE	MTT-150	Connecter un voltmeter CA les CN4.	Lecture bande	VR1(G) VR2(D) (X08)	452mV	(e)
etc.							
<1>	NIVEAU DE SIGNAL FONORE	–	(B)	VOL:Min.	VR1 (X14)	200~300mVp-p	

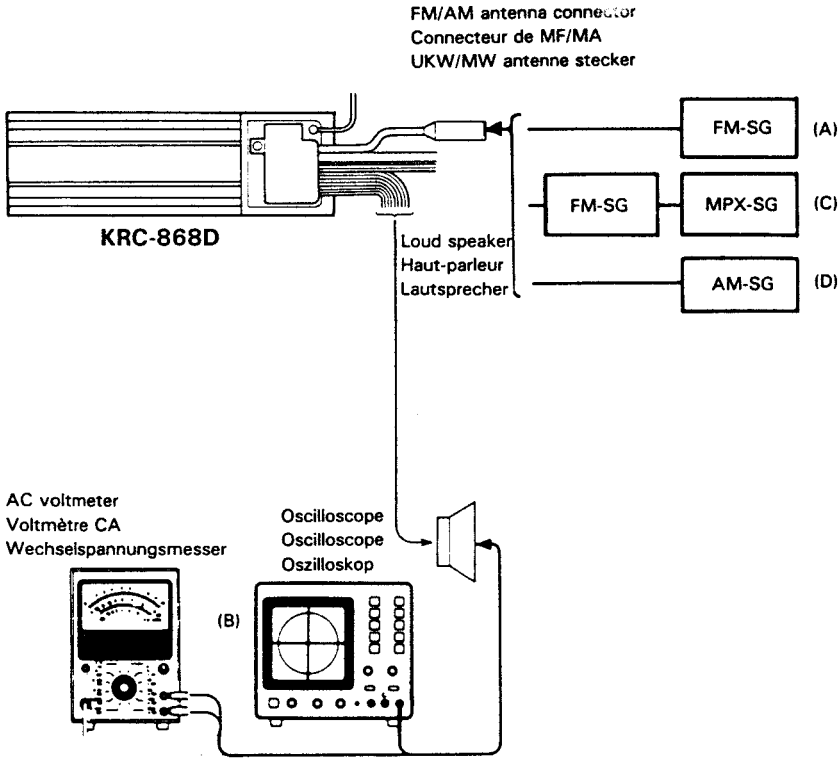
ABGLEICH

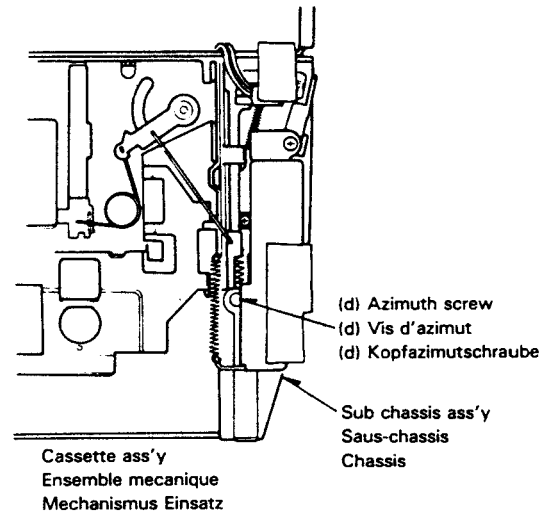
Die Regler und Knöpfe wire folgt einstellen.

BALANCE	:Mittelage	LOUD	:OFF	LOCAL	:OFF
FADER	:Mittelage	T・ADV	:OFF	AUTO	:OFF
BASS	:Mittelage	METAL	:OFF		
TREBLE	:Mittelage	DOLBY NR	:OFF		

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER(RECEIVER)-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-ABTEILUNG							
1	DISKRIMINATOR	(A) 98.1MHz 0 Hub 60dBμ(ANT-Eingang)	Den Gleichstrom-Voltmeter zwischen den beiden Stif ten von CN3 anschließen.	FM 98.1MHz	L1 (X05)	0V	(a)
2	STEREO KANAL TRENNUNG	(C) 98.1MHz 1kHz.±33.5kHz Hub Pilot:±7.5kHz Hub Wahler:L or R 60dBμ(ANT-Eingang)	(B)	FM 98.1MHz	VR4 (X05)	So einstellen. daß das Übersprechen von L auf R und von R auf L minimal wird.	
3	ANRC	(C) 98.1MHz 1kHz.±33.5kHz Hub Pilot:±7.5kHz Hub Wahler:L or R 35dBμ(ANT-Eingang)	(B)	FM 98.1MHz	VR1 (X05)	Trennung 10dB	
4	SUCHEN HALT PEGEL	(A) 98.1MHz 1kHz.±40kHz Hub 20dBμ(ANT-Eingang)	-	FM SUCHEN:ON 98.1MHz	VR2 (X14)	HALT	
5	SOFT MUTE PEGEL	(A) 98.1MHz 1kHz.±40kHz Hub 60dBμ→No Eingang	(B)	FM 98.1MHz	VR3 (X05)	Ausgang Geräusch pegel -25dBμ (Wenn Autenna Stecker Nicht anschließen.)	
6	ANZEIGE INSTRUMENT	(A) 98.1MHz ±40kHz Hub 20dBμ(ANT-Eingang)	-	FM 98.1MHz	VR5 (X14)	Einschalten "1"	
SDK-ABTEILUNG							
7	DK PEGEL	(E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dBμ(ANT-Eingang)	Den Gleichstrom-Voltmeter zwischen den beiden Stiften von CN2 anschließen.	FM 98.1MHz SDK:OFF	L1 VR1 (X13)	Maximale	(b)
8	SDK LAUTSTÄRKE PEGEL	(E) 98.1MHz 1kHz.±40kHz Hub SK 5.33% DK 30% BK 60% 60dBμ(ANT-Eingang)	(B)	FM 98.1MHz VOLUME:0	VR4 (X11)	400mV	(c)
MW-ABTEILUNG							
(1)	HALT PEGEL	(D) 990kHz 400Hz, 30% mod 35dBμ(ANT-Eingang)	-	MW 990kHz	VR3 (X14)	HALT	
(2)	ANZEIGE INSTRUMENT	(D) 990kHz 400Hz, 30% mod 35dBμ(ANT-Eingang)	-	MW 990kHz	VR4 (X14)	Einschalten "1"	
CASSETTEN-DECK-ABTEILUNG							
[1]	AZIMUTH	MTT-114 10kHz	(B)	Bandwiedergabe	Kopfazimutschraube	So einstellen. daß das Azimuth für jeweils L-CH/R-CH oder FWD/RVS maximal wird.	(d)
[2]	WIDERGABE PEGEL	MTT-150	Einen Wechsel-spannungsmesser zwischen zu CN4 anschließen.	Bandwiedergabe	VR1(L) VR2(R) (X08)	452mV	(e)
etc							
<1>	SIGNALTON PEGEL	-	(B)	VOL:Min.	VR1 (X14)	200～300mVp-p	

ADJUSTMENT/REGLAGES/ABGLEICH





VOLTAGE TABLES

(X14-2162-70)

IC1

4	RADIO : 0V TAPE : 5V
5	OE MUTE : 5V
6	METAL : 5V
26	0V
35	0V
36	0V
57	5.1V
58	5.1V

IC2

12	4.6V
13	4.6V
16	0V

IC3

2	REC : 5V
5	4V
6	1V
7	0V
12	0V 5V
14	5V

IC4

7	0V
9	SK - KB or SK - DK : 4.4V
14	5V

IC5

1	1.5V
2	1.5V
3	0V
4	0.5V
5	0V
6	2V
7	5V 0V
8	4V

IC6

1	4V
2	4V
3	4V
4	4V
5	4V
6	4V
7	4V
8	9V

IC7

1	4V
2	4V
3	4V
4	4V
5	4V
6	4V
7	4V
8	9V

IC10

2	4V
3	4V
9	4V
10	4V

Q5

E	–
C	5.7V
B	–

Q9

E	–
C	10.2V
B	–

Q10

E	10.2V
C	–
B	11V

Q11

E	14.4V
C	14.2V
B	–

Q14

E	14.4V
C	–
B	–

Q15

E	14.4V
C	–
B	–

Q16

E	14.4V
C	14.2V
B	–

Q18

E	–
C	5.7V
B	–

Q19

E	5.7V
C	–
B	6.3V

Q20

E	5.7V
C	5.7V
B	–

Q22

E	14.4V
C	–
B	–

Q23

E	–
C	9.4V
B	–

Q24

E	9.4V
C	–
B	10V

Q25

E	0V
C	5V 0V
B	–

Q29

E	9V
C	–
B	–

Q30

E	–
C	–
B	0V

Q35

E	–
C	A : 10V
B	–

Q36

E	–
C	G : 14V
B	–

Q39

E	–
C	A : 14V
B	–

Q40

E	–
C	G : 14V
B	–

Q41

E	14.4V
C	PLAY : 14.4V
B	–

Q43

E	–
C	PLAY : 0V, PROG : 14.4V
B	–

Q44

E	–
C	PLAY : 0V REW : 14.4V
B	–

Q45

E	–
C	PLAY : 0V FF : 14.4V
B	–

Q47

E	0V
C	–
B	–

Q48,49

E	5.1V
C	–
B	–

Q51

E	–
C	–
B	1.6V

Q52,54,56,57

E	0V
C	–
B	–

Q59 ~ 67

E	5.1V
C	–
B	–

Q70

E	–
C	–
B	FM : 5V

Q71

E	–
C	–
B	AM : 5V

Q72

E	–
C	9.4V
B	–

Q76

E	9.4V
C	–
B	9V.0V

Q79

E	0V
C	–
B	–

(X25-2952-70, 2-72)

IC1

46	5V
47	5V
48	5V
56	5V

(X08-2202-70, 2-71)

IC1

1	3.5V
2	2.0V
3	0.9V
4	0V
5	1.3V
6	1.4V
7	8.8V
11	1.3V
12	1.4V
13	0.9V
14	0V
15	3.5V
16	2.0V

IC2

1	4.5V
2	4.3V
3	OFF : 0V B : 5.0V C : 7.0V
4	4.0V
6	4.0V
7	8.8V
8	4.4V
9	4.4V
10	4.4V
13	4.4V
14	8.8V
15	4.4V
18	4.4V

(X05-3362-70, 2-71)

IC1

2	0V
4	2.8V
5	0V
6	5.8V
6	5.8V
7	5.2V
8	5.2V
9	5.2V
10	0V
11	9.5V
12	5.0V
14	0.7V
15	2.0V
16	5.2V

IC2

1	9.5V
2	4.4V
4	3.6V
5	4.8V
6	0V
7	0V
8	0V
9	0V
10	0.7V
11	4.4V
12	3.5V
13	3.5V
14	0V
15	3.5V
16	3.5V
17	2.0V
18	0.8V
19	0.7V

Q2

E	0.8V
C	8.8V
B	1.4V

Q3

E	6.4V
C	0V
B	5.8V

Q4

E	–
C	0V
B	8.4V

Q6

E	–
C	2.1V
B	0V

(X11-2422-71, 2-73)

IC1

1	0.6V
2	0.6V
3	0.6V
4	0.6V
5	0.6V
6	0.6V
7	0.6V
8	0.6V
9	0.6V
11	0.6V
12	3.0V
13	0.6V
14	0.6V
15	9.8V

IC2

1	14.4V

Q1

E	3.0V
C	3.0V
B	2.4V

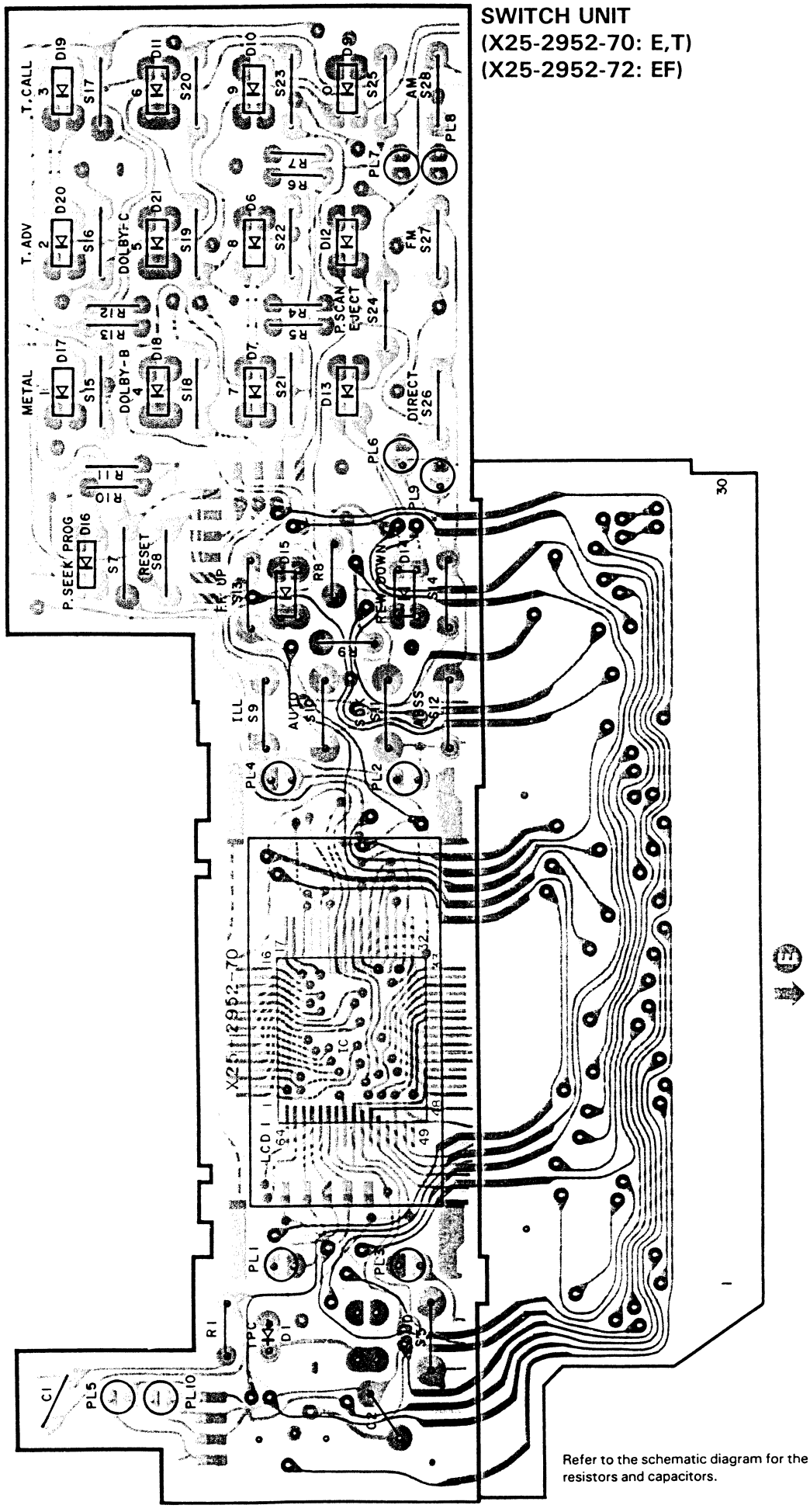
Q2

E	3.0V
C	3.0V
B	2.4V

Q9

E	–
C	–
B	ON : 5.4V OFF : 0V

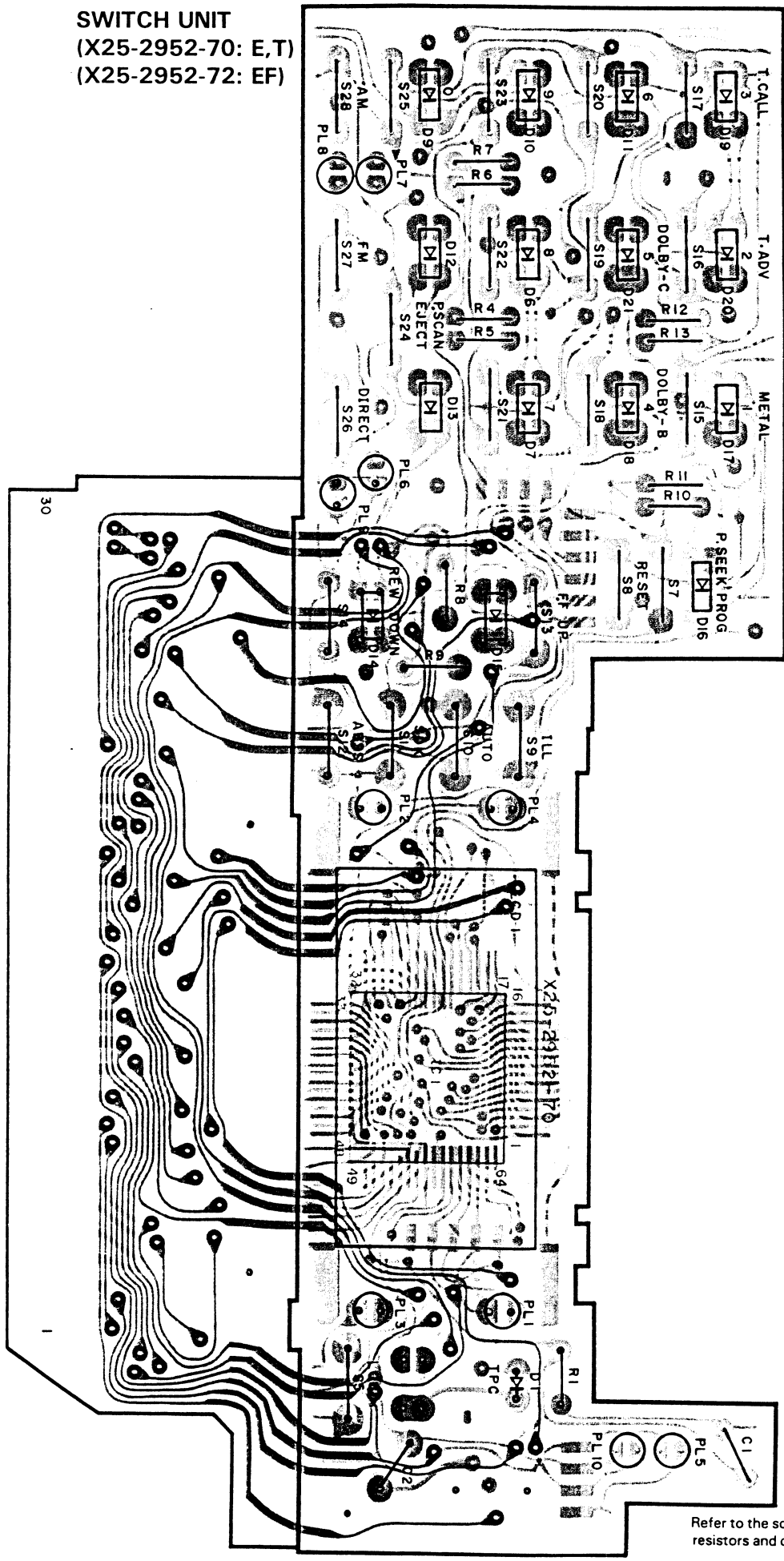
PC BOARD (Component side view) (1/2)



Refer to the schematic diagram for the values of resistors and capacitors.

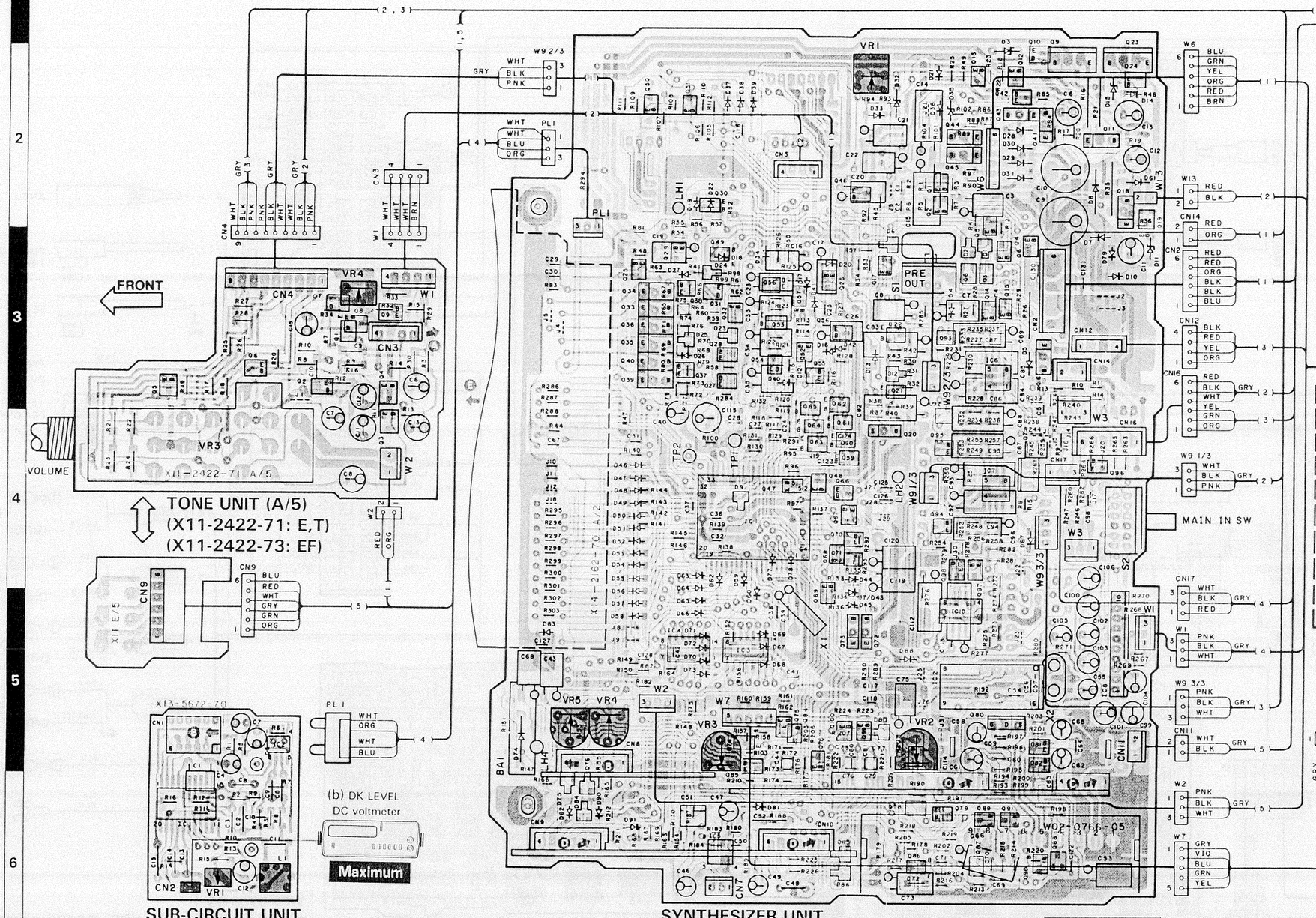
PC BOARD (Foil side view) (1/2)

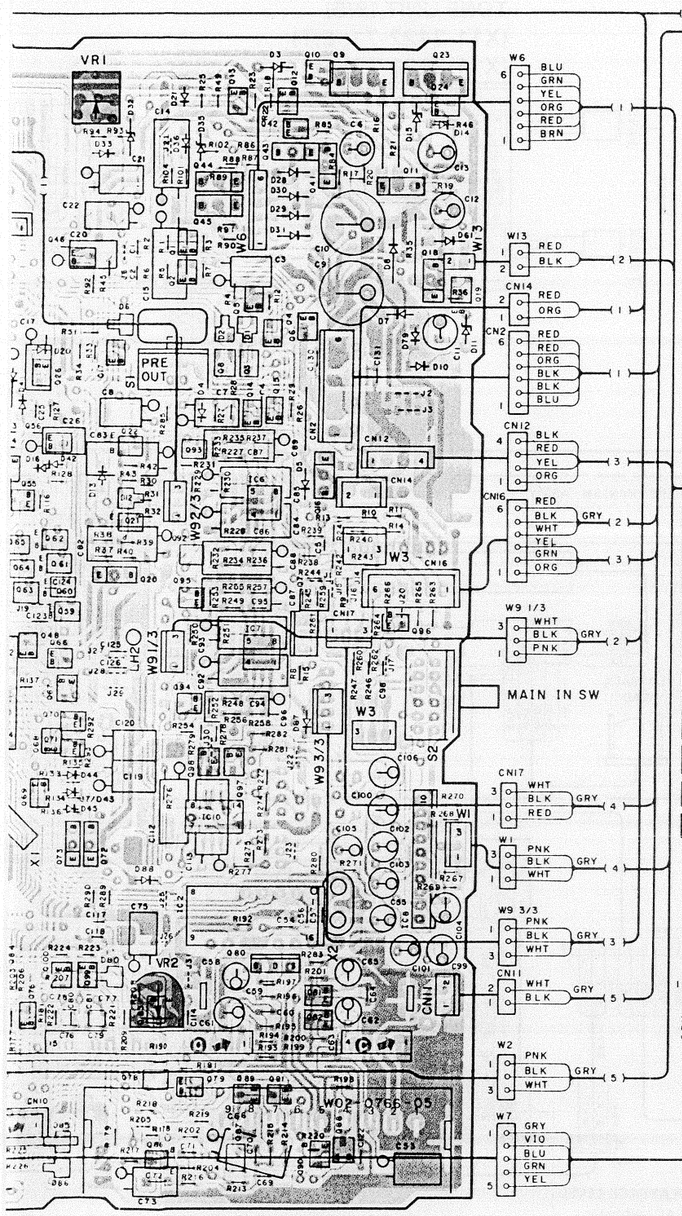
SWITCH UNIT
(X25-2952-70: E,T)
(X25-2952-72: EF)



Refer to the schematic diagram for the values of resistors and capacitors.

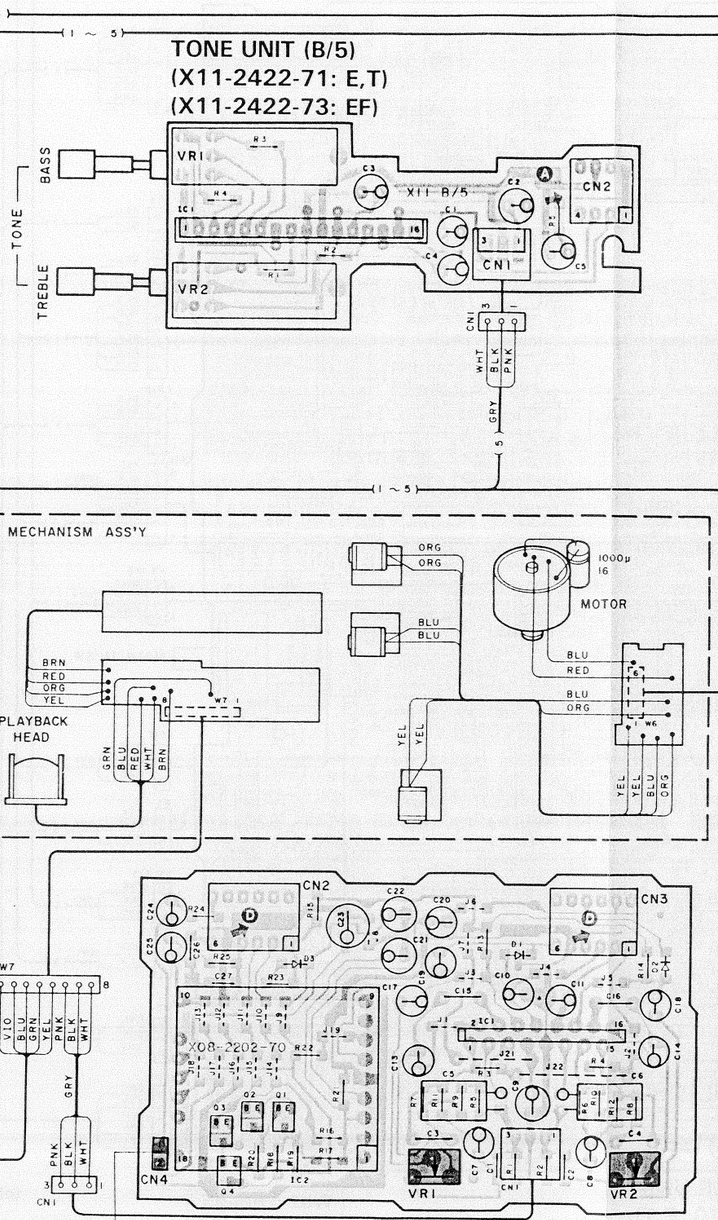
PC BOARD (Component side view) (2/2)





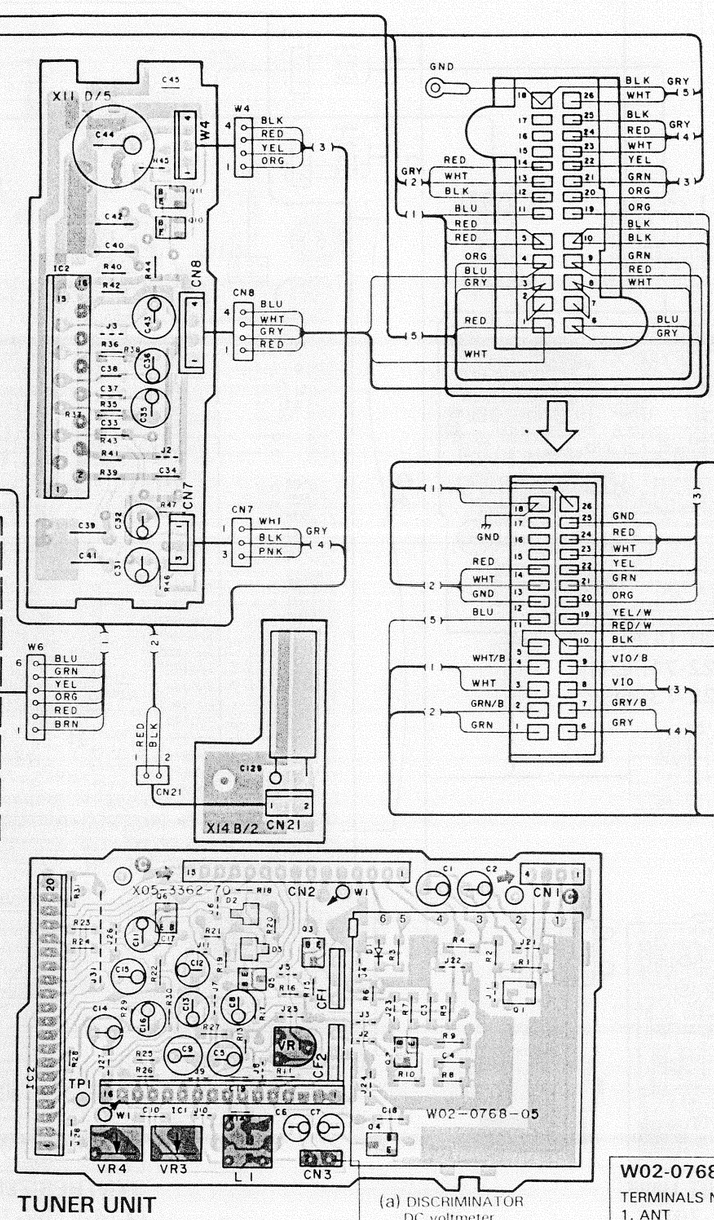
W02-0766-05

TERMINALS NAME
1. DX/Lo
2. ANT
3. Vt
4. Bs
5. OSC OUT
6. SD
7. AGC
8. +B
9. DET OUT



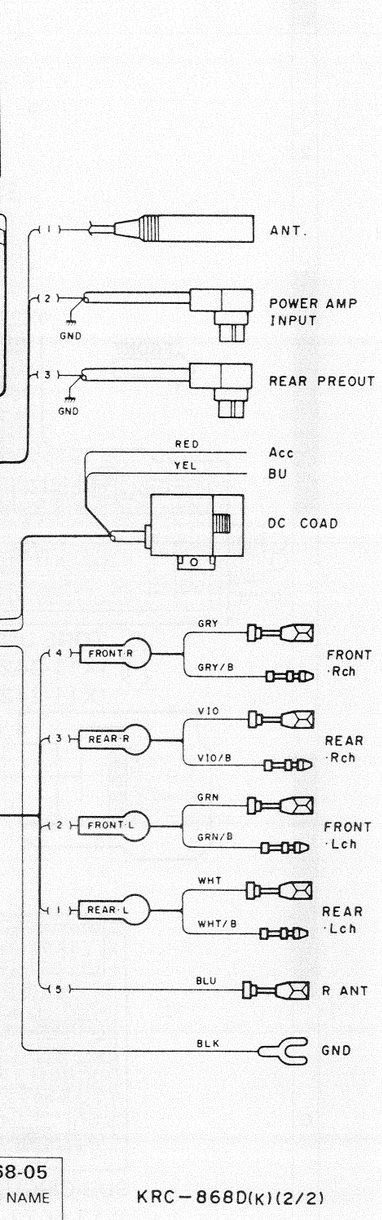
PREAMPLIFIER UNIT
(X08-2202-70: E,T)
(X08-2202-71: EF)

(e) PLAYBACK LEVEL
AC voltmeter
425mV



TUNER UNIT
(X05-3362-70: E,T)
(X05-3362-71: EF)

(a) DISCRIMINATOR
DC voltmeter
0V



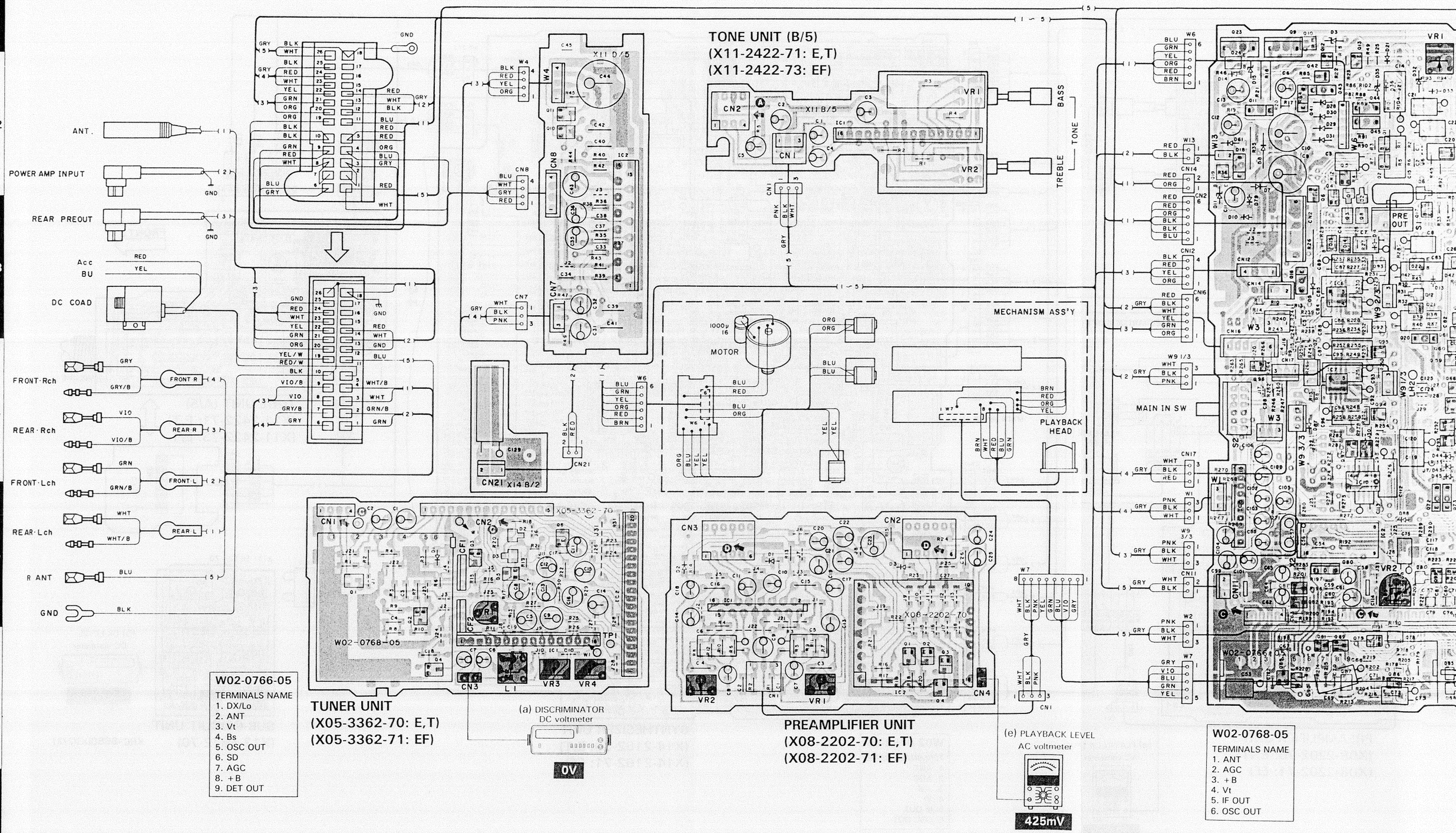
W02-0768-05

TERMINALS NAME
1. ANT
2. AGC
3. +B
4. Vt
5. IF OUT
6. OSC OUT

KRC-868D(K)(2/2)

Refer to the schematic diagram for the values of resistors and capacitors.

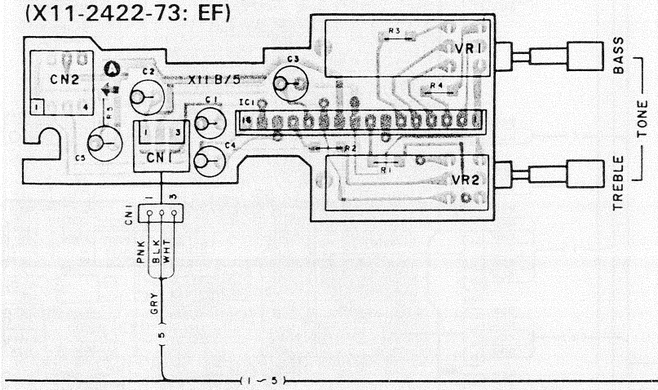
PC BOARD (Foil side view) (2/2)

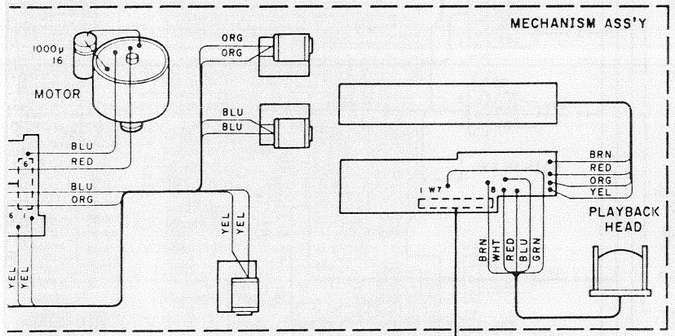


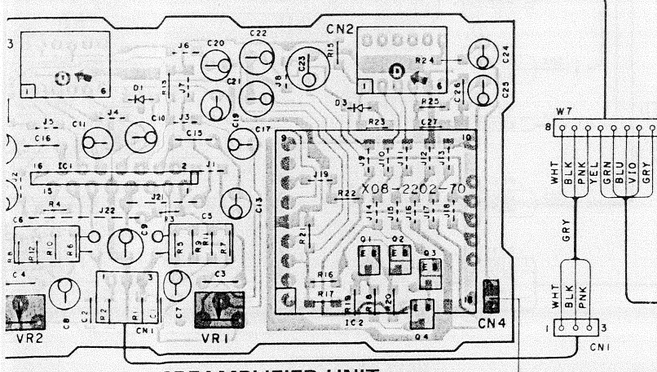
W02-0766-05
TERMINALS NAME
1. DX/Lo
2. ANT
3. Vt
4. Bs
5. OSC OUT
6. SD
7. AGC
8. +B
9. DET OUT

W02-0768-05
TERMINALS NAME
1. ANT
2. AGC
3. +B
4. Vt
5. IF OUT
6. OSC OUT

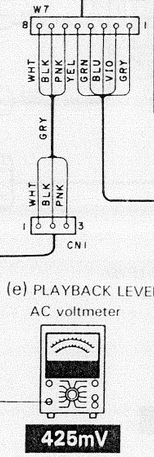
TONE UNIT (B/5)
(X11-2422-71: E,T)
(X11-2422-73: EF)





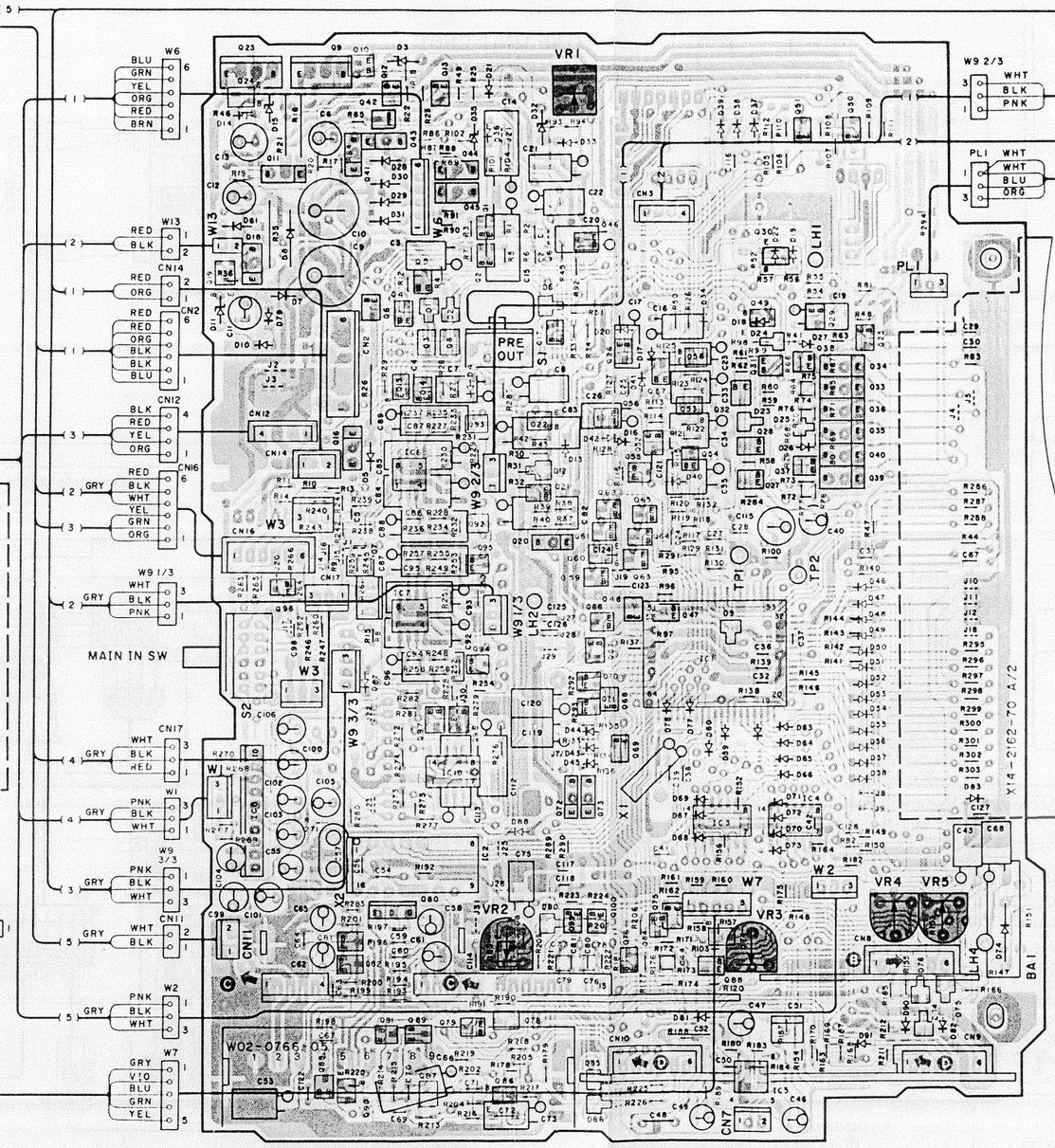


PREAMPLIFIER UNIT
(X08-2202-70: E,T)
(X08-2202-71: EF)



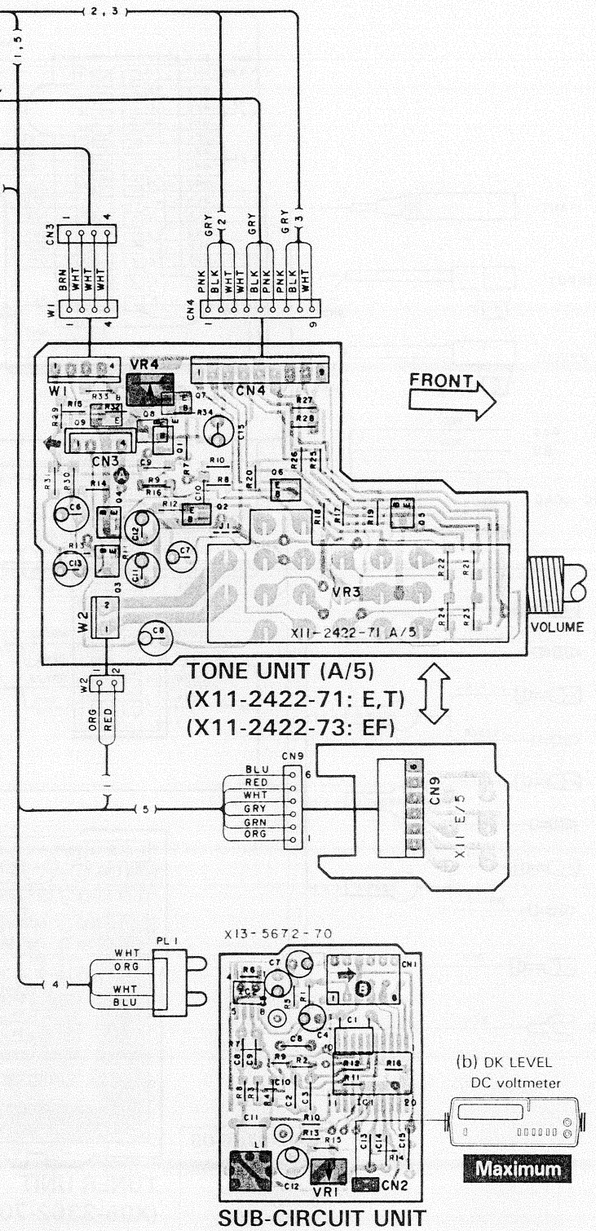
(e) PLAYBACK LEVEL
AC voltmeter

425mV



W02-0768-05
TERMINALS NAME
1. ANT
2. AGC
3. +B
4. Vt
5. IF OUT
6. OSC OUT

SYNTHESIZER UNIT
(X14-2162-70: E,T)
(X14-2162-71: EF)



TONE UNIT (A/5)
(X11-2422-71: E,T)
(X11-2422-73: EF)

(b) DK LEVEL
DC voltmeter

Maximum

SUB-CIRCUIT UNIT
(X13-5672-70)

KRC-868D(K)(2/2)

Refer to the schematic diagram for the values of resistors and capacitors.

(W02-0766-05)

MECHANISM(D40-0567-05)

(X14-2162-70)

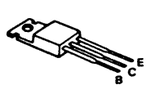
IC1	: 75108G-604-1B
IC2	: LM7001
IC3,4	: μPD4081BG
IC5	: BA3708F
IC6,7	: μPC4570G2
IC8	: KC-850
IC10	: UPD40668G

Q1,2,5,10,12,13,17 19,21,24,25,30～32 37,38,47,56,57, 86,99,100	: 2SC2412K
Q4,6,27,28,42,46,70 71,74,79,96	: DTC124EK
Q9,23	: 2SB1015
Q11,18,20,33～36,39～41 72,73	: 2SB822F
Q14,15,22,29,49,53,55	: 2SA1037K
Q16	: 2SB822F(Q,R)
Q26,48,58～69,76,88,89	: DTA144EK
Q43～45	: 2SD1330
Q50～52,54,81～85	: 2SC2412K(S)
Q75	: 2SA1036K
Q80	: 2SK669
Q90	: DTC143TK
Q91,94,95,97,98	: DTC144EK

(X14-2162-70,2-71)

D2,6,12,23,76,80 84～86	: DAN202K
D3	: RD11JS(B2)
D4,10,13,14,17,18,20,21 26,27,33,36～49 51～58,63,65～73,77, 79,81～83,87,88,90,91	: RLS-73 or DLS1585
D5,7,28～31,61	: ERA15-01Y1
D8	: DSM1A1
D9,24,25	: DAP202K
D11,3	
D15	
D32	
D74	
D75	

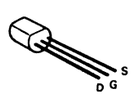
2SB1015



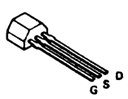
DTC143TK
2SB822F
2SD1330

DTA144EK
DTC124EK
DTC144EK
2SA1036K
2SA1037K
2SC2412K
2SC2814

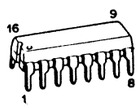
2SK163



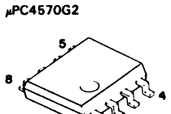
2SK669



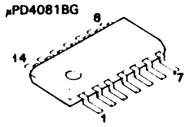
LM7001



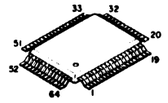
AN6556S
μPC4570G2



μPD4066BG
μPD4081BG

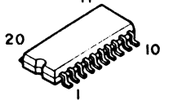


75108G-604-1B

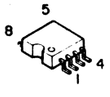


KC-850

TDA1579T



BA3708F



Kenwood follow
For this reason
DOLBY and the
Noise reduction

(X14-2162-70,2-71)

D2,6,12,23,76,80 84～86 : DAN202K
D3 : RD11JS(B2)
D4,10,13,14,17,18,20,21 26,27,33,36～49 51～58,63,65～73,77, 79,81～83,87,88,90,91 : RLS-73 or DLS1585
D5,7,28～31,61 : ERA15-01Y1
D8 : DSM1A1
D9,24,25 : DAP202K
D11,35 : RD5.1JS(B2)
D15 : RD9.1JS(B3)
D32 : RD5.6JS(B2)
D74 : ISS101
D75 : ISS193

(W02-0766-05)

(X13-5672-70) IC1 : TDA1579T IC2 : AN6556S

S

μPD4066BG
μPD4081BG

75108G-604-1B

KC-850

TDA1579T

BA3708F

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Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les
mètre
légèr
appa

-70,2-71)
,76,80
: DAN202K
: RD11JS(B2)
,17,18,20,21
56～49
,65～73,77,
,87,88,90,91
: RLS-73 or DLS1585
,61: ERA15-01Y1
: DSM1A1
: DAP202K

D11,35 : RD5.1JS(B2)
D15 : RD9.1JS(B3)
D32 : RD5.6JS(B2)
D74 : 1SS101
D75 : 1SS193

(X14-2162-7X)(A/2)

(W02-0766-05)

(X13-5672-70) IC1:TDA1579T IC2:AN6556S

(X14-2162-7X)(B/2)

(W02-0766-05)
IC1 : LA1135
FET1 : 2SK163
FET2 : 2SK184
TR1～5 : 2SC2814, 2SC2620 or 2SC2714
TR6 : 2SC2669
D1～4 : 1SS110, 1SS53 or 1SI555
D5～7 : SVC321 or 1SV149

SIGNAL LINE
GND LINE
+B LINE

KRC-868D(E)(1/2)

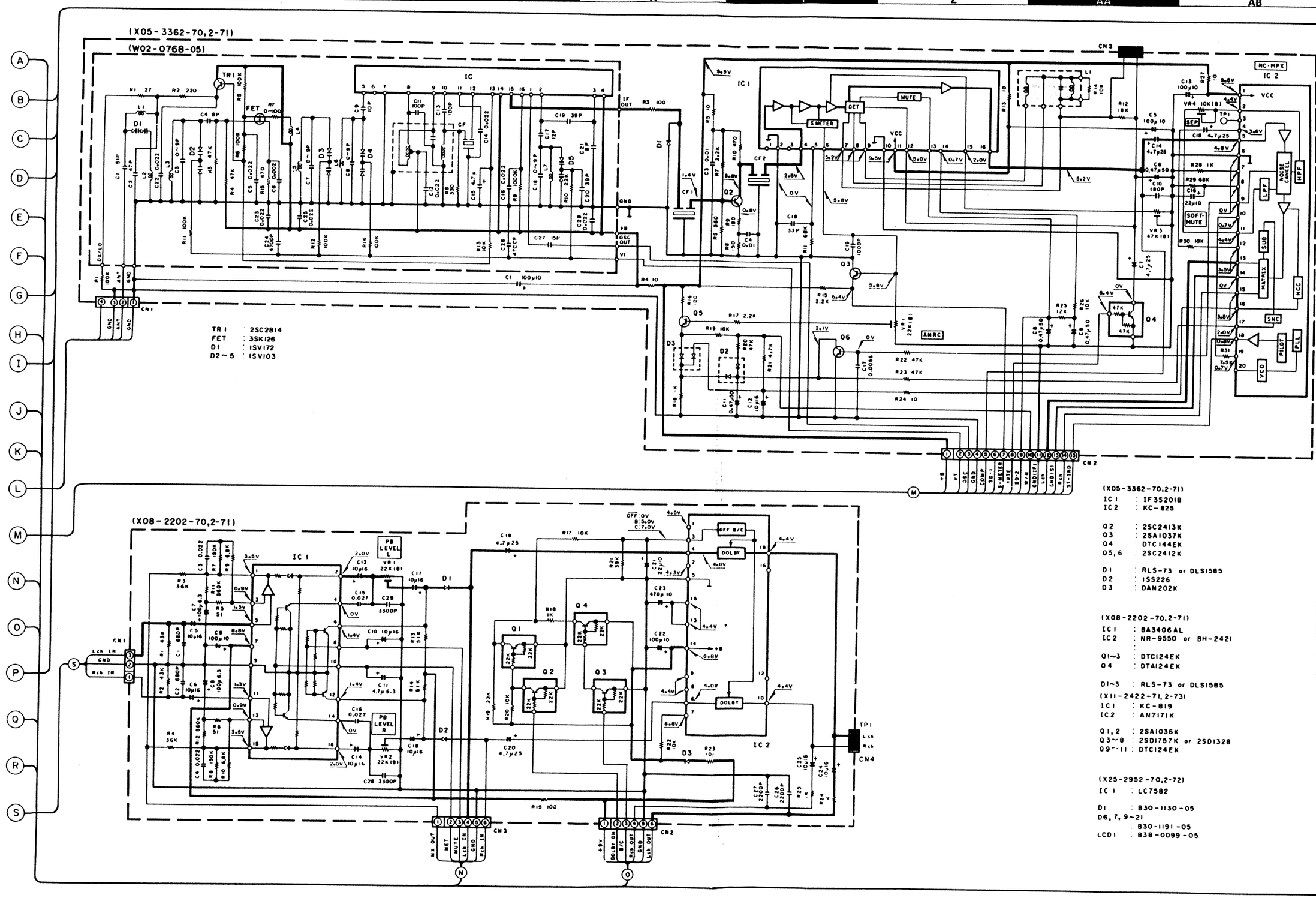
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

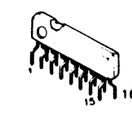
KRC-868D

KENWOOD

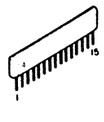


DTA124EK
DTC124EK
DTC144EK
2SA1036K
2SA1037K
2SC2412K
2SC2413K
2SD1328
2SD1757K

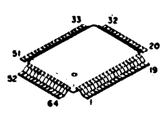
BA3406AL



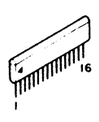
KC-819



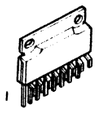
LC7582



IF3S201B

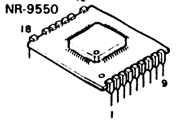


AN7171K



KC-825

BH-2421
NR-9550



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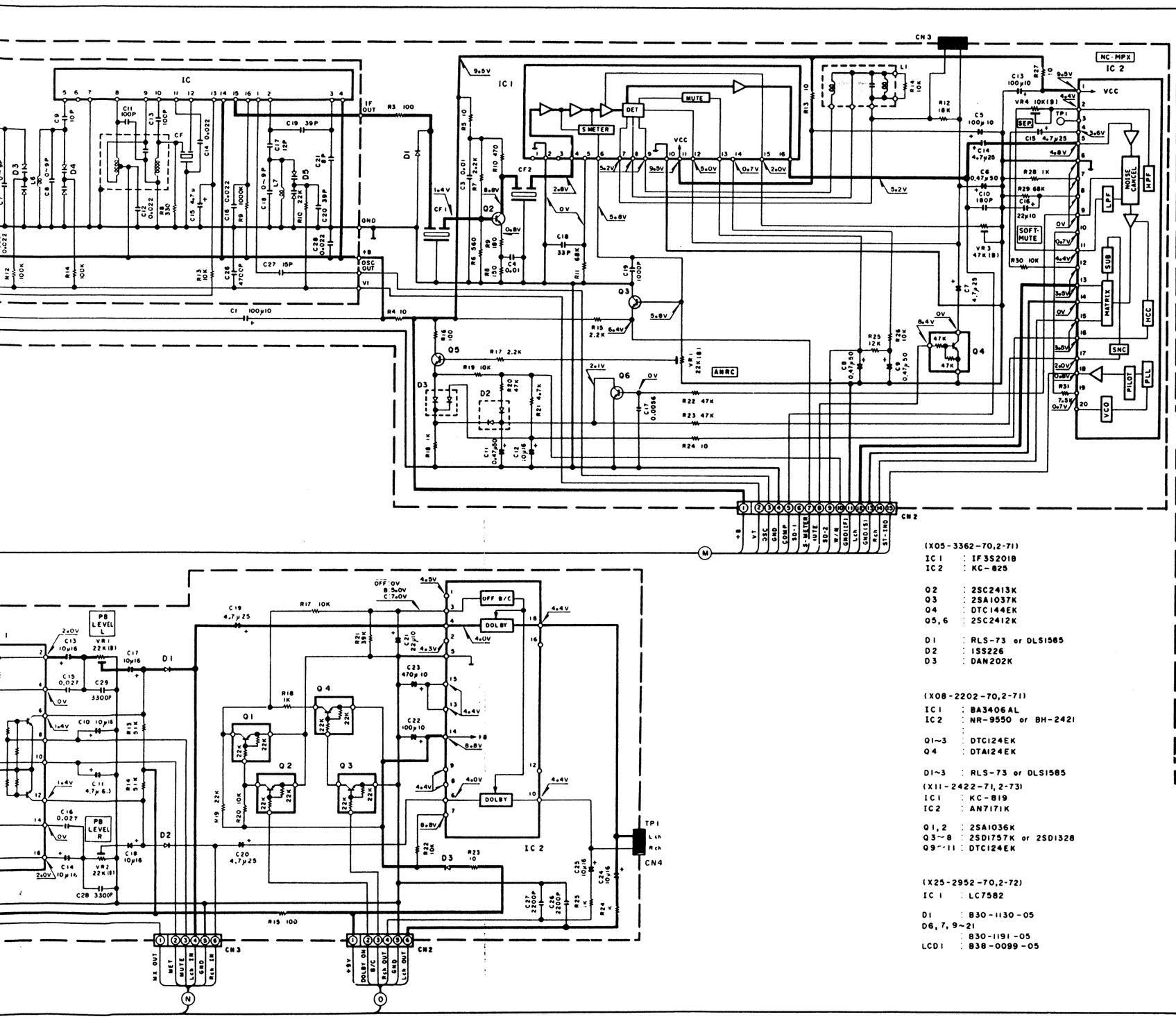
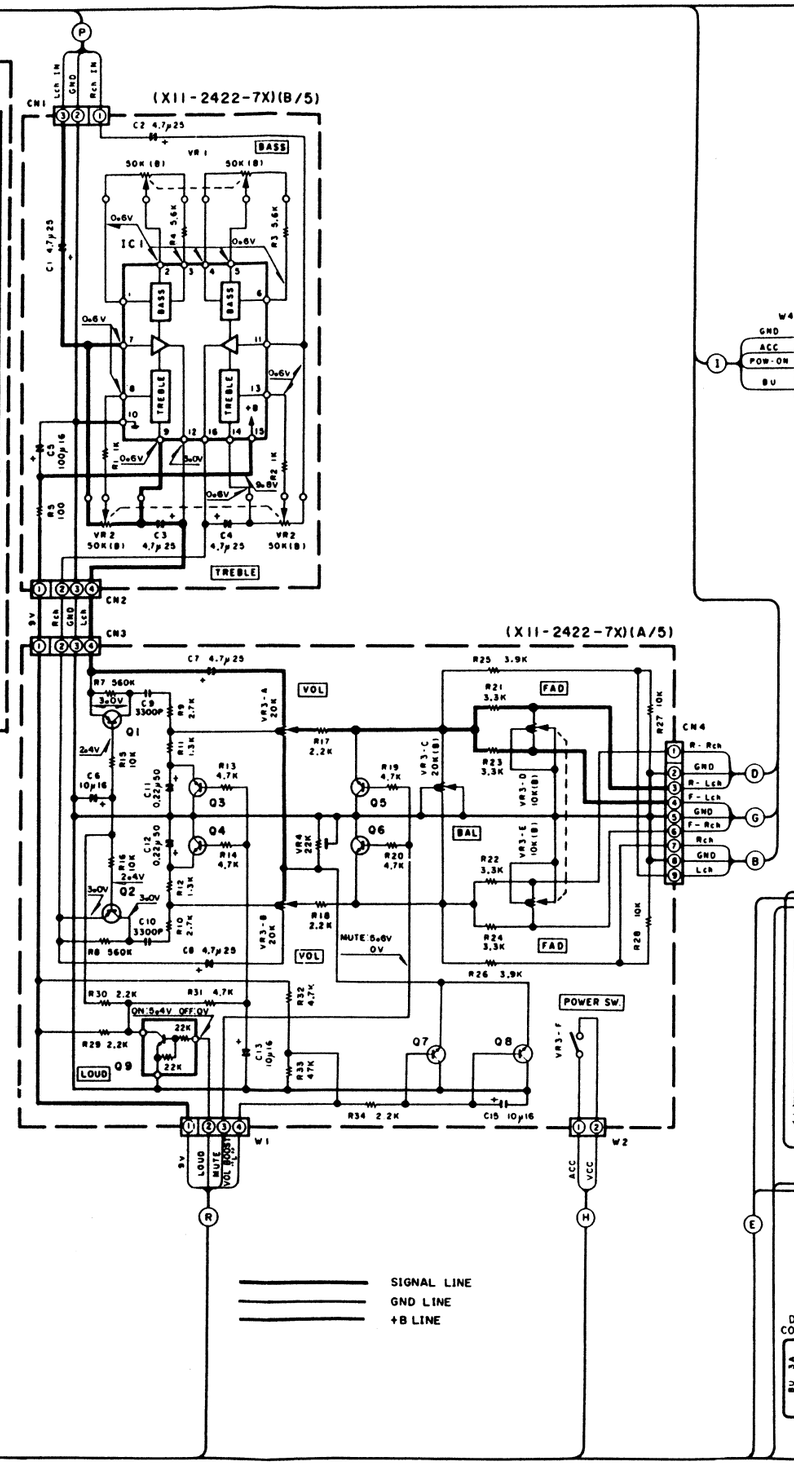
Le système de réduction du bruit de fond est fabriqué sous license des Dolby Laboratories





(X05-3362-70,2-71)
IC1 : IF3S201B
IC2 : KC-825

Q2 : 2SC2413K
Q3 : 2SA1037K
Q4 : DTC144EK
Q5,6 : 2SC2412K

D1 : RLS-73 or DLS1585
D2 : 1SS226
D3 : DAN202K

(X08-2202-70,2-71)
IC1 : BA3406AL
IC2 : NR-9550 or BH-2421

Q1~3 : DTC124EK
Q4 : DTA124EK

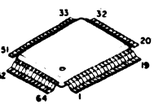
D1~3 : RLS-73 or DLS1585
(X11-2422-71, 2-73)
IC1 : KC-819
IC2 : AN7171K

Q1, 2 : 2SA1036K
Q3~8 : 2SD1757K or 2SD1328
Q9~11 : DTC124EK

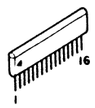
(X25-2952-70,2-72)
IC1 : LC7582

D1 : B30-1130-05
D6, 7, 9~21 : B30-1191-05
LCD1 : B38-0099-05

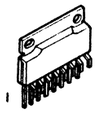
LC7582



IF3S201B

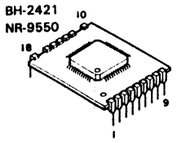


AN7171K



KC-825

BH-2421
NR-9550



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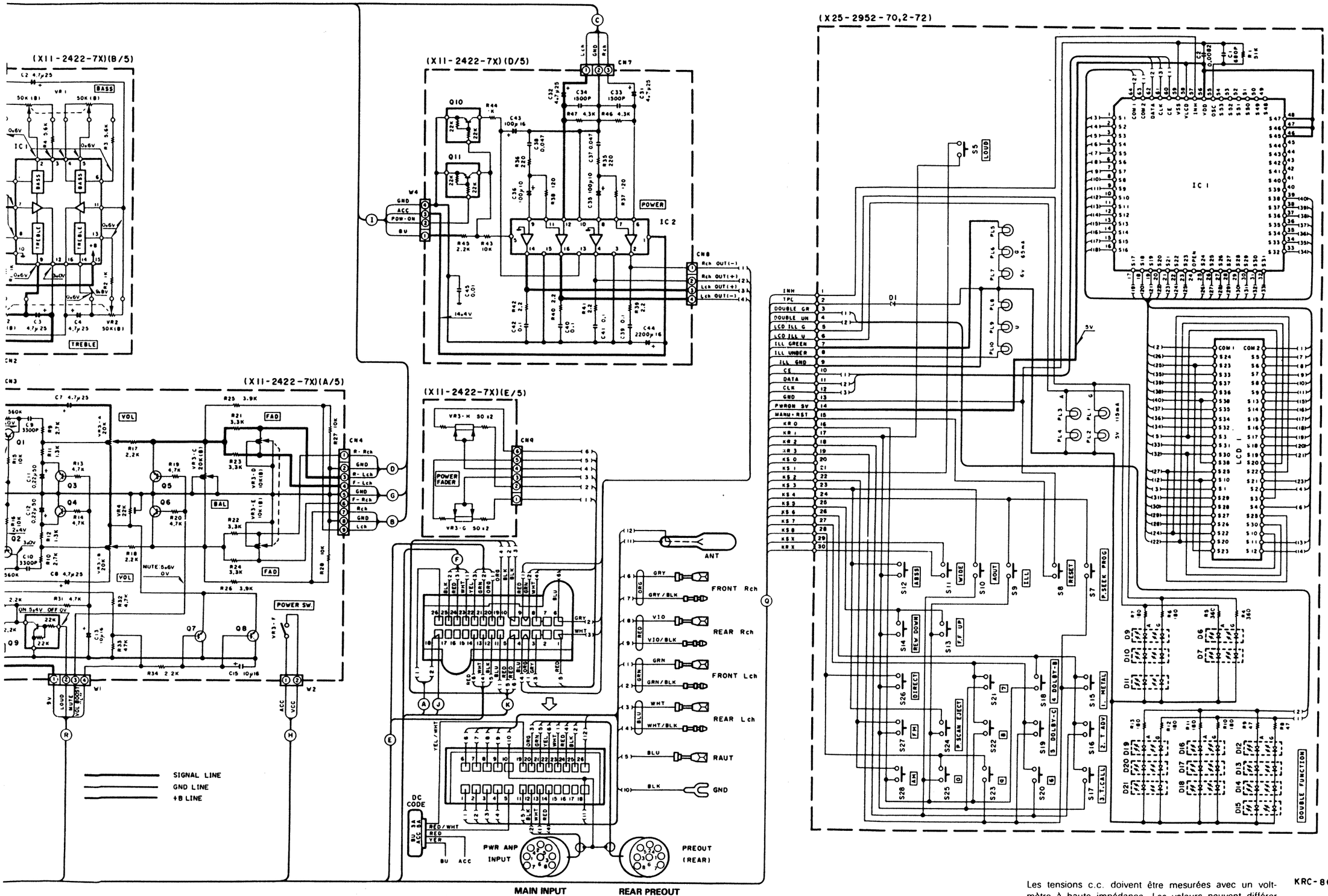
Dolby-Rauschunterdrückung mit Lizenz der Dolby Laboratories gefertigt.



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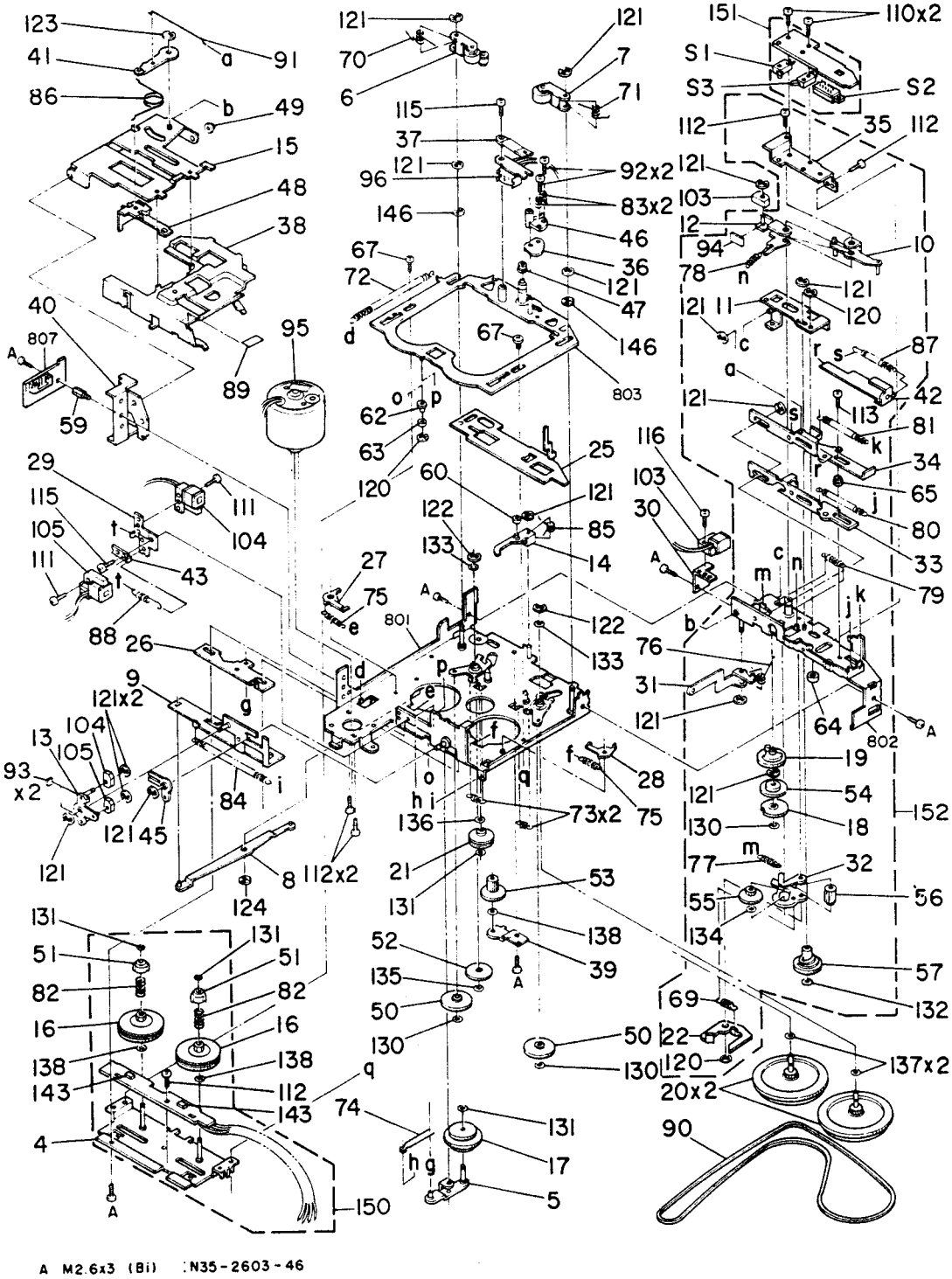
KRC-868D(E)(2/2)

KRC-868D

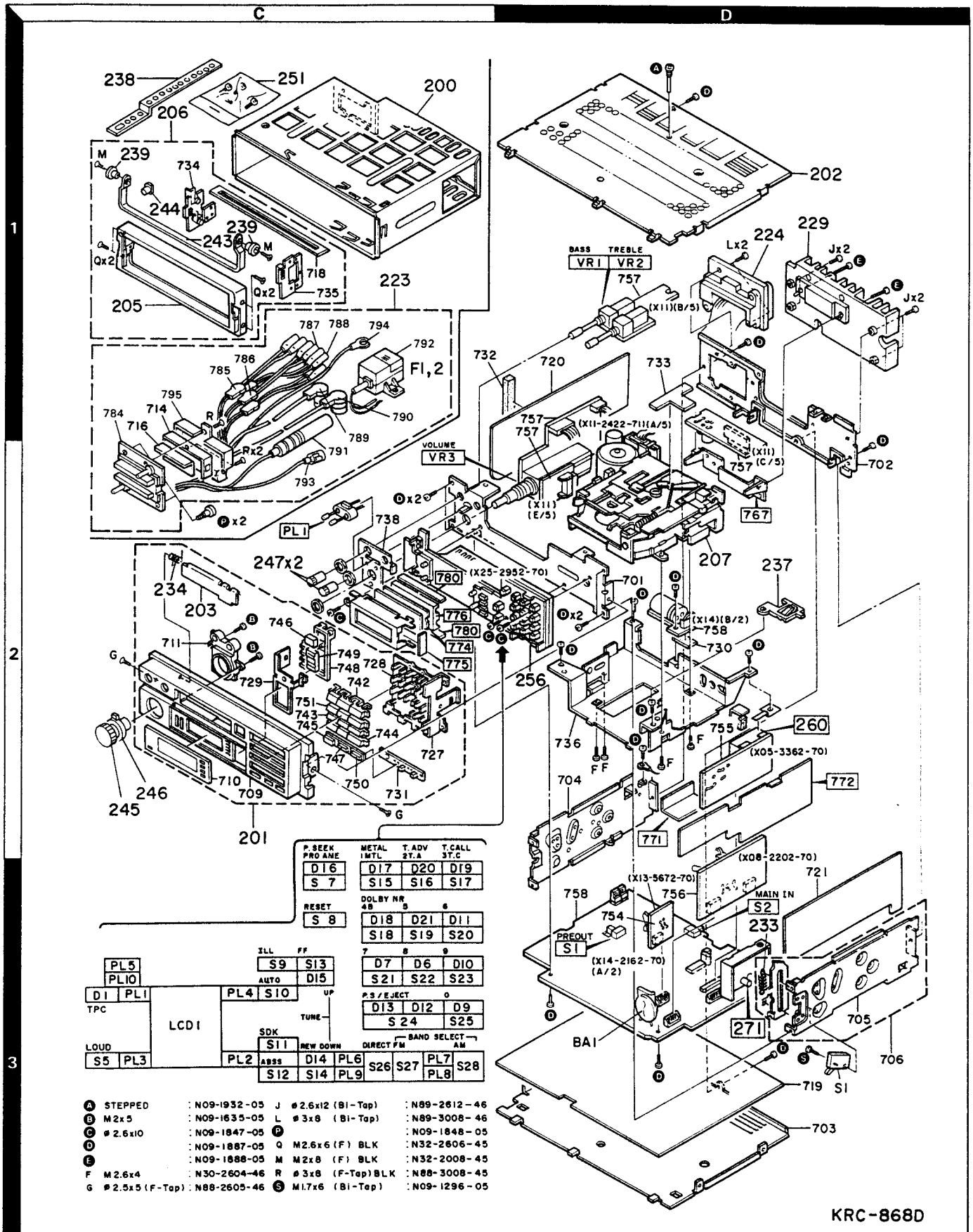
KENWOOD

EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KRC-868D			
200	1C	*	A01-1563-01	METALLIC CABINET		
201	2C	*	A20-5275-02	PANEL ASSY		
202	1D	*	A52-0106-13	TOP PLATE		
203	2C		A53-0943-03	CASSETTE LID		
205	1C	*	B07-1742-11	ESCUTCHEON		
206	1C	*	B07-1751-23	ESCUTCHEON ASSY		
-			B46-0100-10	WARRANTY CARD		
-		*	B50-6893-00	INSTRUCTION MANUAL(ENG,FRE)		
-		*	B50-6894-00	INSTRUCTION MANUAL(GER,ITA)	EF	
-		*	B50-8559-00	INSTRUCTION MANUAL	EF	
-			B58-0803-03	CAUTION CARD	EEF	
-		*	B58-0853-04	CAUTION CARD	ET	
-		*	B58-0854-14	CAUTION CARD	ET	
C1			CE04DW1C102M	ELECTRO 1000UF 16WV		
207	2D	*	D40-0567-05	CASSETTE MECHANISM ASSY		
223	1C	*	E30-2252-05	CONNECTOR ASSY (CASE)		
224	1D	*	E30-2254-05	CONNECTOR ASSY (SET)		
228	1C	*	F07-0512-05	COVER	E	
229	1D	*	F01-1178-03	HEAT SINK (REAR)		
F1			F05-7521-05	FUSE (7.5A) ACC		
F2			F06-3026-05	FUASE (3A) BACKUP		
233	3D	*	G01-2040-04	EXTENSION SPRING(J21-5026-03)		
234	2C	*	G01-2044-04	TORSION COIL SPRING		
-		*	H01-7603-04	ITEM CARTON CASE		
-		*	H03-0919-04	OUTER CARTON CASE		
-		*	H10-3444-03	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-3445-03	POLYSTYRENE FOAMED FIXTURE		
-			H25-0112-04	PROTECTION BAG (180X250X0.05)		
-			H25-0268-04	PROTECTION BAG		
237	2D		J19-2837-04	HOLDER		
238	1C		J54-0059-04	STAY		
239	1C		J31-0812-04	COLLAR (HANDLE)		
243	1C		K01-0084-03	HANDLE		
244	1C		K27-1752-14	KNOB (BUTTON) HANDLE		
245	2C	*	K27-1756-04	KNOB (BUTTON) VOLUME		
246	2C	*	K27-1757-14	KNOB (BUTTON) FADER		
247	2C	*	K27-1758-04	KNOB (BUTTON) TONE		
251	1C		N99-0099-05	SCREW SET		
A	1D	*	N09-1932-05	STEPPED SCREW (FOR TRANSIT)		
B	2C		N09-1635-05	TAPTITE SCREW (M2X5)		
C	2C	*	N09-1847-05	EVATITE SCREW (Ø2.6X10)		
D	2C,2D	*	N09-1887-05	TAPTITE SCREW		
E	1D	*	N09-1888-05	TAPTITE SCREW		
P	2C	*	N09-1848-05	STEPPED SCREW		
S	3D		N09-1296-05	MACHINE SCREW (M1.7X6)		
S1	3D		S46-1076-05	LEAF SWITCH		
BA1	3D		W09-0046-05	BATTERY		

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256	2D	*	X25-2952-70	SWITCH UNIT	ET	
256	2D	*	X25-2952-72	SWITCH UNIT	EF	
TUNER UNIT (X05-3362-70: E,T, 2-71: EF)						
C1			CE04DW1A101M	ELECTRO 100UF 10WV		
C3 ,4			CK41DY1C103M	CYLND CHIP C 0.010UF M		
C5			CE04DW1A101M	ELECTRO 100UF 10WV		
C6			C90-0484-05	ELECTRO 0.47UF 50WV		
C7			C90-0482-05	ELECTRO 4.7UF 25WV		
C8 ,9			CE04DW1HR47M	ELECTRO 0.47UF 50WV		
C10			CK41DB1H181K	CYLND CHIP C 180PF K		
C11			CE04DW1HR47M	ELECTRO 0.47UF 50WV		
C12			CE04DW1C100M	ELECTRO 10UF 16WV		
C13			CE04DW1A101M	ELECTRO 100UF 10WV		
C14 ,15			CE04DW1E4R7M	ELECTRO 4.7UF 25WV		
C16			CE04DW1C220M	ELECTRO 22UF 16WV		
C17			CK73FB1H562K	CHIP C 5600PF K		
C18			CC41DSL1H330J	CYLND CHIP C 33PF J		
C19			CK73FB1H102K	CHIP C 1000PF K		
CN1		*	E40-3391-05	PIN ASSY		
CN2		*	E40-3402-05	PIN ASSY		
CN3			E40-3640-05	PIN ASSY		
W1			E31-3572-05	WIRING HARNESS		
CF1 ,2		*	L72-0524-05	CERAMIC FILTER		
L1		*	L30-0462-15	FM IFT		
J1 -11			R92-0670-05	CHIP R 0 OHM		
J21 -28			R92-0338-05	CLYND CHIP R 0 OHM	EF	
J21 -29			R92-0338-05	CLYND CHIP R 0 OHM	ET	
J33			R92-0338-05	CLYND CHIP R 0 OHM	EF	
R1			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R3			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R4 ,5			RD41DB2B100J	CYLND CHIP R 10 J 1/8W		
R6			RK73FB2A561J	CHIP R 560 J 1/10W		
R7			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R8			RD41DB2B151J	CYLND CHIP R 150 J 1/8W		
R9			RD41DB2B181J	CYLND CHIP R 180 J 1/8W		
R10			RD41DB2B471J	CYLND CHIP R 470 J 1/8W		
R11			RK73FB2A683J	CHIP R 68K J 1/10W		
R12			RK73FB2A183J	CHIP R 18K J 1/10W		
R13			RK73FB2A100J	CHIP R 10 J 1/10W		
R14			RK73FB2A103J	CHIP R 10K J 1/10W		
R15			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R16			RK73FB2A101J	CHIP R 100 J 1/10W		
R17			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R18			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R19			RK73FB2A103J	CHIP R 10K J 1/10W		
R20			RK73FB2A473J	CHIP R 47K J 1/10W		
R21			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R22 ,23			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R24			RD41DB2B100J	CYLND CHIP R 10 J 1/8W		
R25			RK73FB2A123J	CHIP R 12K J 1/10W		
R26			RK73FB2A103J	CHIP R 10K J 1/10W		
R27			RD41DB2B100J	CYLND CHIP R 10 J 1/8W		
R28			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R29			RK73FB2A683J	CHIP R 68K J 1/10W		

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R30			RK73FB2A103J	CHIP R 10K J 1/10W		
R31			RD41DB2B752J	CYLND CHIP R 7.5K J 1/8W		
VR1			R12-3072-05	TRIMMING POT.(22K)ANRC		
VR3			R12-3103-05	TRIMMING POT.(47K)SOFT MUTE		
VR4			R12-3100-05	TRIMMING POT.(10K)SEPARATION		
D1			DLS1585	DIODE		
D1			RLS-73	DIODE		
D2		*	1SS226	DIODE		
D3			DAN202K	DIODE		
IC1			IF3S201B	IC(FM IF AMP/ DET)		
IC2			KC-825	IC(NOISE CANCELLER/ MPX)		
Q2			2SC2413K	TRANSISTOR		
Q3			2SA1037K	TRANSISTOR		
Q4			DTC144EK	DIGITAL TRANSISTOR		
Q5 ,6			2SC2412K	TRANSISTOR		
260	2D		W02-0768-05	FM FRONT-END ASSY		
PREAMPLIFIER UNIT (X08-2202-70: E,T, 2-71: EF)						
C1 ,2			CK41DB1H681K	CYLND CHIP C 680PF K		
C3 ,4			CF92V1H223J	MF 0.022UF J		
C5 ,6			CE04DW1C100M	ELECTRO 10UF 16WV		
C7 ,8		*	CE04MW0J101M	ELECTRO 100UF 6.3WV		
C9			CE04MW1A101M	ELECTRO 100UF 10WV		
C10			CE04MW1C100M	ELECTRO 10UF 16WV		
C11			C90-0495-05	ELECTRO 47UF 6.3WV		
C13 ,14			CE04MW1C100M	ELECTRO 10UF 16WV		
C15 ,16			CF92V1H273J	MF 0.027UF J		
C17 ,18			CE04MW1C100M	ELECTRO 10UF 16WV		
C19 ,20			CE04MW1E4R7M	ELECTRO 4.7UF 25WV		
C21			CE04DW1A220M	ELECTRO 22UF 10WV		
C22			CE04DW1A101M	ELECTRO 100UF 10WV		
C23			CE04DW1A471M	ELECTRO 470UF 10WV		
C24 ,25			CE04MW1C100M	ELECTRO 10UF 16WV		
C26 ,27		*	CK41DX1C222M	CYLND CHIP C 2200PF M		
C28 ,29			CK73FB1H332K	CHIP C 3300PF K		
CN1		*	E40-3261-05	PIN ASSY		
CN2 ,3			E40-3464-05	PIN ASSY		
CN4			E40-3743-05	PIN ASSY		
J1 -19			R92-0338-05	CLYND CHIP R 0 OHM	EF	
J1 -20			R92-0338-05	CLYND CHIP R 0 OHM	ET	
J22			R92-0150-05	JUMPER REST 0 OHM		
J23			R92-0338-05	CLYND CHIP R 0 OHM	EF	
J25			R92-0670-05	CHIP R 0 OHM		
R1 ,2			RD41DB2B433J	CYLND CHIP R 43K J 1/8W		
R3 ,4			RD41DB2B363J	CYLND CHIP R 36K J 1/8W		
R5 ,6			RD41DB2B510J	CYLND CHIP R 51 J 1/8W		
R7 ,8			RD41DB2B154J	CYLND CHIP R 150K J 1/8W		
R9 ,10			RD41DB2B682J	CYLND CHIP R 6.8K J 1/8W		
R11 ,12			RD41DB2B564J	CYLND CHIP R 560K J 1/8W		
R13 ,14			RD41DB2B513J	CYLND CHIP R 51K J 1/8W		
R15			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R17			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R18			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R19			RD41DB2B223J	CYLND CHIP R 22K J 1/8W		

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R20			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R21			RD41DB2B393J	CYLND CHIP R 39K J 1/8W		
R22			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R23			RD41DB2B100J	CYLND CHIP R 10 J 1/8W		
R24 ,25			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
VR1 ,2			R12-3101-05	TRIMMING POT.(22K)PB LEVEL		
D1 -3			DLS1585	DIODE		
D1 -3			RLS-73	DIODE		
IC1			BA3406AL	IC(PREAMP FOR TAPE EQ X2)		
IC2			BH-2421	IC(DOLBY)		
IC2			NR-9550	IC(DOLBY)		
Q1 -3			DTC124EK	DIGITAL TRANSISTOR		
Q4			DTA124EK	DIGITAL TRANSISTOR		
TONE UNIT (X11-2422-71: E,T, 2-73: EF)						
C1 -4			C90-0482-05	ELECTRO 4.7UF 25WV		
C5			C90-1263-05	ELECTRO 100UF 16WV		
C6			CE04DW1C100M	ELECTRO 10UF 16WV		
C7 ,8			C90-0482-05	ELECTRO 4.7UF 25WV		
C9 ,10		*	CK41DX1C332M	CYLND CHIP C 3300PF M		
C11 ,12			CE04DW1HR22M	ELECTRO 0.22UF 50WV		
C13			C90-0478-05	ELECTRO 10UF 16WV		
C15			C90-0478-05	ELECTRO 10UF 16WV		
C31 ,32			CE04DW1E4R7M	ELECTRO 4.7UF 25WV		
C33 ,34			CK41DX1C152M	CYLND CHIP C 1500PF M		
C35 ,36			CE04DW1A101M	ELECTRO 100UF 10WV		
C37 ,38			CK73EB1H473K	CHIP C 0.047UF K		
C39 -42			CF92V1H104J	MF 0.10UF J		
C43			CE04DW1C101M	ELECTRO 100UF 16WV		
C44			C90-1404-05	ELECTRO 2200UF 16WV		
C45			CK41DY1C103M	CYLND CHIP C 0.010UF M		
CN1			E40-3261-05	PIN ASSY		
CN2			E40-3462-05	PIN ASSY		
CN3			E40-3483-05	PIN ASSY		
CN4			E40-3253-05	PIN ASSY		
CN7			E40-3247-05	PIN ASSY		
CN8			E40-3239-05	PIN ASSY		
CN9			E40-3264-05	PIN ASSY		
W1		*	E31-4052-05	WIRING HARNESS		
W2		*	E31-4049-15	WIRING HARNESS		
W4			E31-4047-05	WIRING HARNESS		
J2 ,3			R92-0338-05	CLYND CHIP R 0 OHM		
J5			R92-0338-05	CLYND CHIP R 0 OHM	E	
J7			R92-0338-05	CLYND CHIP R 0 OHM	E	
R1 ,2			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R3 ,4			RD41DB2B562J	CYLND CHIP R 5.6K J 1/8W		
R5			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R7 ,8			RD41DB2B564J	CYLND CHIP R 560K J 1/8W		
R9 ,10			RD41DB2B272J	CYLND CHIP R 2.7K J 1/8W		
R11 ,12			RD41DB2B132J	CYLND CHIP R 1.3K J 1/8W		
R13 ,14			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R15 ,16			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R17 ,18			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R19 ,20			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		

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R21 -24			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R25 ,26			RD41DB2B392J	CYLND CHIP R 3.9K J 1/8W		
R27 ,28			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R29 ,30			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R31 ,32			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R33			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R34			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R35 ,36			RD41DB2B221J	CYLND CHIP R 220 J 1/8W		
R37 ,38			RD41DB2B121J	CYLND CHIP R 120 J 1/8W		
R39 -42			RD41DB2B2R2J	CYLND CHIP R 2.2 J 1/8W		
R43			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R44			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R45			RD41DB2B222J	CYLND CHIP R 2.2K J 1/8W		
R46 ,47			RD41DB2B432J	CYLND CHIP R 4.3K J 1/8W		
VR1 ,2	1D	*	R10-4029-05	POTENTIOMETER (BASS,TREBLE)		
VR3	2C	*	R24-3011-05	POTENTIOMETER (VOL,FADER,BAL)		
VR4			R12-3101-05	TRIMMING POT.(22K)SDK LEVEL		
IC1			KC-819	IC(TONE AMP X2)		
IC2			AN7171K	IC(AUDIO POWER AMP)		
Q1 ,2			2SA1036K	TRANSISTOR		
Q3 -8			2SD1328	TRANSISTOR		
Q3 -8			2SD1757K	TRANSISTOR		
Q9 -11			DTC124EK	DIGITAL TRANSISTOR		
SUB-CIRCUIT UNIT (X13-5672-70)						
C1			CF92V1H103J	MF 0.010UF J		
C2 ,3			CF92V1H473J	MF 0.047UF J		
C4			C90-1263-05	ELECTRO 100UF 16WV		
C5			C90-0478-05	ELECTRO 10UF 16WV		
C6			CF92V1H104J	MF 0.10UF J		
C7			C90-0824-05	ELECTRO 1UF 50WV		
C8 ,9			CF92V1H683J	MF 0.068UF J		
C10		*	CC73FCH1H560J	CHIP C 56PF J		
C11		*	CQ93HP2A332J	MYLAR 3300PF J		
C12			C90-0482-05	ELECTRO 4.7UF 25WV		
C13 ,14			CF92V1H683J	MF 0.068UF J		
C15			CF92V1H154J	MF 0.15UF J		
C16			CE04CW1C100M	ELECTRO 10UF 16WV		
CN1			E40-3464-05	PIN ASSY		
CN2			E40-3640-05	PIN ASSY		
L1		*	L39-0156-05	TRAP COIL		
R1			RD41DB2B220J	CYLND CHIP R 22 J 1/8W		
R2		*	RD41DB2B624J	CYLND CHIP R 620K J 1/8W		
R3			RD41DB2B513J	CYLND CHIP R 51K J 1/8W		
R4			RD41DB2B753J	CYLND CHIP R 75K J 1/8W		
R5			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		
R6			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R7			RD41DB2B224J	CYLND CHIP R 220K J 1/8W		
R8			RD41DB2B123J	CYLND CHIP R 12K J 1/8W		
R9			RD41DB2B333J	CYLND CHIP R 33K J 1/8W		
R10			RD41DB2B683J	CYLND CHIP R 68K J 1/8W		
R11			RD41DB2B182J	CYLND CHIP R 1.8K J 1/8W		
R12			RD41DB2B104J	CYLND CHIP R 100K J 1/8W		

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R13			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R14			RD41DB2B684J	CYLND CHIP R 680K J 1/8W		
R15			RD41DB2B431J	CYLND CHIP R 430 J 1/8W		
R16			RD41DB2B224J	CYLND CHIP R 220K J 1/8W		
VR1		*	R12-0096-05	TRIMMING POT. (220) DK LEVEL		
IC1		*	TDA1579T	IC(DECODER)		
IC2			AN6556S	IC(OP AMP X2)		
SYNTHESIZER UNIT (X14-2162-70: E,T, 2-71: EF)						
PL1	2C		B30-1192-05	LAMP		
C1 ,2			CK73FB1E273K	CHIP C 0.027UF K		
C3			C90-0478-05	ELECTRO 10UF 16WV		
C4 ,5			CK73FB1E273K	CHIP C 0.027UF K		
C6			C90-0824-05	ELECTRO 1UF 50WV		
C7			C90-0478-05	ELECTRO 10UF 16WV		
C8			C90-0477-05	ELECTRO 0.1UF 50WV		
C9 ,10			CE04DW1C102M	ELECTRO 1000UF 16WV		
C11			CE04DW1A101M	ELECTRO 100UF 10WV		
C12 -15			CE04DW1A221M	ELECTRO 220UF 10WV		
C16			C90-0478-05	ELECTRO 10UF 16WV		
C17			C90-0494-05	ELECTRO 22UF 6.3WV		
C19			C90-0482-05	ELECTRO 4.7UF 25WV		
C20 ,21			C90-0478-05	ELECTRO 10UF 16WV		
C22			C90-0824-05	ELECTRO 1UF 50WV		
C23			C90-0508-05	ELECTRO 2.2UF 50WV		
C24 ,25			CK73FB1E273K	CHIP C 0.027UF K		
C26			C90-0508-05	ELECTRO 2.2UF 50WV		
C28			CK73FB1E273K	CHIP C 0.027UF K		
C29			CK73FB1E103K	CHIP C 0.010UF K		
C31 ,32			CK73FB1E223K	CHIP C 0.022UF K		
C33 -35			C90-1263-05	ELECTRO 100UF 16WV		
C36 ,37			CK73FB1E223K	CHIP C 0.022UF K		
C38 ,39			CC73FCH1H100D	CHIP C 10PF D		
C40			C90-0495-05	ELECTRO 47UF 6.3WV		
C41 ,42			CK73FB1E223K	CHIP C 0.022UF K		
C43			C90-0478-05	ELECTRO 10UF 16WV		
C44			CK73FB1E103K	CHIP C 0.010UF K		
C46			C90-0478-05	ELECTRO 10UF 16WV		
C47			C90-0508-05	ELECTRO 2.2UF 50WV		
C48			CF92V1H104J	MF 0.10UF J		
C49			C90-0824-05	ELECTRO 1UF 50WV		
C50			CK73FB1H152K	CHIP C 1500PF K		
C51			CF92V1H104J	MF 0.10UF J		
C52			CF92V1H154J	MF 0.15UF J		
C53			CS15E1C010M	TANTAL 1.0UF 16WV		
C54			CK73FB1E223K	CHIP C 0.022UF K		
C55			CE04DW1A101M	ELECTRO 100UF 10WV		
C56 ,57			CC73FCH1H100D	CHIP C 10PF D		
C58			C90-0508-05	ELECTRO 2.2UF 50WV		
C59			CK73FB1E223K	CHIP C 0.022UF K		
C60			CK73FB1E273K	CHIP C 0.027UF K		
C61 ,62			C90-0831-05	ELECTRO 33UF 10WV		
C63			CK73FB1E273K	CHIP C 0.027UF K		
C64			CK73FB1E223K	CHIP C 0.022UF K		
C65			C90-0481-05	ELECTRO 3.3UF 50WV		

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C66			CE04DW1A101M	ELECTRO	100UF	10WV		
C67			CK73FB1E223K	CHIP C	0.022UF	K		
C68			C90-0824-05	ELECTRO	1UF	50WV		
C69			CK73FB1E103K	CHIP C	0.010UF	K		
C71			CK73FB1E223K	CHIP C	0.022UF	K		
C72			CK73EB1E393K	CHIP C	0.039UF	K		
C73			C90-0478-05	ELECTRO	10UF	16WV		
C75			C90-0477-05	ELECTRO	0.1UF	50WV		
C76 ,77			CK73FB1H562K	CHIP C	5600PF	K		
C80 ,81			CC73FSL1H561J	CHIP C	560PF	J		
C82 ,83			CE04DW1E4R7M	ELECTRO	4.7UF	25WV		
C84 ,85			CE04DW1A101M	ELECTRO	100UF	10WV		
C86 ,87			CC73FSL1H561J	CHIP C	560PF	J		
C88 ,89			CE04DW1A220M	ELECTRO	22UF	10WV		
C92 ,93			CE04DW1A101M	ELECTRO	100UF	10WV		
C94 ,95			CC73FSL1H561J	CHIP C	560PF	J		
C96 ,97			CE04DW1A220M	ELECTRO	22UF	10WV		
C98			CK73FB1E273K	CHIP C	0.027UF	K		
C99 -102			CE04DW1E4R7M	ELECTRO	4.7UF	25WV		
C103,104			CE04DW1A101M	ELECTRO	100UF	10WV		
C105,106			CE04DW1E4R7M	ELECTRO	4.7UF	25WV		
C112,113			CE04DW1E4R7M	ELECTRO	4.7UF	25WV		
C114			CK73FB1E223K	CHIP C	0.022UF	K		
C115			C90-0495-05	ELECTRO	47UF	6.3WV		
C116			CK73FB1E223K	CHIP C	0.022UF	K		
C117,118			CK73FB1E103K	CHIP C	0.010UF	K		
C119			C90-0478-05	ELECTRO	10UF	16WV		
C120			C90-0508-05	ELECTRO	2.2UF	50WV		
C121			CK73EB1E393K	CHIP C	0.039UF	K		
C122			CK73FB1E103K	CHIP C	0.010UF	K		
C123			C92-0002-05	CHIP TAN	0.22UF	35WV		
C124			CK73FB1E103K	CHIP C	0.010UF	K		
C125,126			CK73EB1H103K	CHIP C	0.010UF	K		
C127,128			CK73FB1E103K	CHIP C	0.010UF	K		
C129			CE04DW1C222M	ELECTRO	2200UF	16WV		
C130,131			CK73FB1H103K	CHIP C	0.010UF	K		
CN2			E40-3241-05	PIN ASSY				
CN3			E40-3248-05	PIN ASSY				
CN7			E40-3246-05	PIN ASSY				
CN8 -10			E40-3485-05	PIN ASSY				
CN11			E40-3237-05	PIN ASSY				
CN12			E40-3239-05	PIN ASSY				
CN14			E40-3237-05	PIN ASSY				
CN16			E40-3250-05	PIN ASSY				
CN17			E40-3247-05	PIN ASSY				
CN21			E40-3237-05	PIN ASSY				
W1			E31-4046-05	WIRING HARNESS				
W2			E31-4050-05	WIRING HARNESS				
W3		*	E31-4051-05	WIRING HARNESS				
W6			E31-4055-05	WIRING HARNESS				
W7			E31-4056-05	WIRING HARNESS				
W9		*	E31-4058-05	WIRING HARNESS				
W13			E31-4048-15	WIRING HARNESS				

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LH1 ,2			J19-2826-05	HOLDER		
LH4			J19-2826-05	HOLDER		
X1			L77-1112-05	CRYSTAL RESONATOR(4.1943MHZ)		
X2			L77-1110-05	CRYSTAL RESONATOR(7.2MHZ)		
J2			R92-0338-05	CLYND CHIP R 0 OHM		
J6			R92-0670-05	CHIP R 0 OHM		
J9			R92-0670-05	CHIP R 0 OHM		
J11			R92-0670-05	CHIP R 0 OHM		
J17 ,18			R92-0670-05	CHIP R 0 OHM		
J20 -23			R92-0670-05	CHIP R 0 OHM		
J26			R92-0670-05	CHIP R 0 OHM		
J28			R92-0670-05	CHIP R 0 OHM		
J30			R92-0338-05	CLYND CHIP R 0 OHM		
J32			R92-0338-05	CLYND CHIP R 0 OHM	ET	
J33			R92-0338-05	CLYND CHIP R 0 OHM	EF	
R1 ,2			RK73FB2A473J	CHIP R 47K J 1/10W		
R3			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R4			RK73FB2A471J	CHIP R 470 J 1/10W		
R5 ,6			RK73FB2A473J	CHIP R 47K J 1/10W		
R7			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R10			RK73FB2A473J	CHIP R 47K J 1/10W		
R11 ,12			RK73FB2A103J	CHIP R 10K J 1/10W		
R13			RK73FB2A473J	CHIP R 47K J 1/10W		
R14			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R16			RD14DB2H4R7J	SMALL-RD 4.7 J 1/2W		
R17			RK73FB2A473J	CHIP R 47K J 1/10W		
R18			RD41DB2B331J	CYLND CHIP R 330 J 1/8W		
R19			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R20			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R21			RD14DB2H100J	SMALL-RD 10 J 1/2W		
R22 -24			RK73FB2A223J	CHIP R 22K J 1/10W		
R25			RK73FB2A473J	CHIP R 47K J 1/10W		
R26			RD14DB2H102J	SMALL-RD 1.0K J 1/2W		
R27 -29			RK73FB2A223J	CHIP R 22K J 1/10W		
R30 -32			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R33			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R34			RK73FB2A223J	CHIP R 22K J 1/10W		
R35			RD14DB2H4R7J	SMALL-RD 4.7 J 1/2W		
R36			RK73FB2A103J	CHIP R 10K J 1/10W		
R37 ,38			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R39 ,40			RK73FB2A223J	CHIP R 22K J 1/10W		
R41			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R42 ,43			RK73FB2A103J	CHIP R 10K J 1/10W		
R44			RK73FB2A221J	CHIP R 220 J 1/10W		
R45			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R46 -49			RK73FB2A473J	CHIP R 47K J 1/10W		
R50			RK73FB2A103J	CHIP R 10K J 1/10W		
R53			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R54 ,55			RK73FB2A223J	CHIP R 22K J 1/10W		
R56 ,57			RK73FB2A473J	CHIP R 47K J 1/10W		
R58			RK73FB2A103J	CHIP R 10K J 1/10W		
R59 -62			RK73FB2A223J	CHIP R 22K J 1/10W		
R63			RK73FB2A103J	CHIP R 10K J 1/10W		
R64			RK73FB2A222J	CHIP R 2.2K J 1/10W		

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R65			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R66			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R67			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R68			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R69			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R70			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R71			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R72 -75			RK73FB2A223J	CHIP R 22K J 1/10W		
R76			RK73FB2A103J	CHIP R 10K J 1/10W		
R77			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R78			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R79			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R80			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R82 ,83			RK73FB2A181J	CHIP R 180 J 1/10W		
R84			RK73FB2A473J	CHIP R 47K J 1/10W		
R85 ,86			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R87			RK73FB2A473J	CHIP R 47K J 1/10W		
R88			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R89			RK73FB2A473J	CHIP R 47K J 1/10W		
R90			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R91			RK73FB2A473J	CHIP R 47K J 1/10W		
R92			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R93			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R94			RK73FB2A103J	CHIP R 10K J 1/10W		
R95			RK73FB2A563J	CHIP R 56K J 1/10W		
R96			RK73FB2A223J	CHIP R 22K J 1/10W		
R97			RK73FB2A104J	CHIP R 100K J 1/10W		
R98 -100			RK73FB2A223J	CHIP R 22K J 1/10W		
R101			RK73FB2A103J	CHIP R 10K J 1/10W		
R102,103			RK73FB2A223J	CHIP R 22K J 1/10W		
R104			RK73FB2A473J	CHIP R 47K J 1/10W		
R107			RK73FB2A103J	CHIP R 10K J 1/10W		
R108			RK73FB2A104J	CHIP R 100K J 1/10W		
R109,110			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R111			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R112			RK73FB2A103J	CHIP R 10K J 1/10W		
R113			RK73FB2A104J	CHIP R 100K J 1/10W		
R114			RK73FB2A223J	CHIP R 22K J 1/10W		
R115,116			RK73FB2A473J	CHIP R 47K J 1/10W		
R117,118			RK73FB2A103J	CHIP R 10K J 1/10W		
R119			RK73FB2A104J	CHIP R 100K J 1/10W		
R120			RK73FB2A103J	CHIP R 10K J 1/10W		
R121			RK73FB2A473J	CHIP R 47K J 1/10W		
R122			RK73FB2A104J	CHIP R 100K J 1/10W		
R123,124			RK73FB2A473J	CHIP R 47K J 1/10W		
R125			RK73FB2A103J	CHIP R 10K J 1/10W		
R126			RK73FB2A104J	CHIP R 100K J 1/10W		
R127			RK73FB2A103J	CHIP R 10K J 1/10W		
R128			RK73FB2A104J	CHIP R 100K J 1/10W		
R129			RK73FB2A103J	CHIP R 10K J 1/10W		
R130			RK73FB2A104J	CHIP R 100K J 1/10W		
R131			RK73FB2A683J	CHIP R 68K J 1/10W		
R133			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R134			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R135			RK73FB2A222J	CHIP R 2.2K J 1/10W		

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R136			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R137			RK73FB2A103J	CHIP R 10K J 1/10W		
R138			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R139			RK73FB2A473J	CHIP R 47K J 1/10W		
R140			RK73FB2A103J	CHIP R 10K J 1/10W		
R141-144			RK73FB2A474J	CHIP R 470K J 1/10W		
R145			RK73FB2A104J	CHIP R 100K J 1/10W		
R146-150			RK73FB2A103J	CHIP R 10K J 1/10W		
R151			RK73FB2A333J	CHIP R 33K J 1/10W		
R152,153			RK73FB2A103J	CHIP R 10K J 1/10W		
R154			RK73FB2A334J	CHIP R 330K J 1/10W		
R155			RK73FB2A104J	CHIP R 100K J 1/10W		
R156,157			RK73FB2A473J	CHIP R 47K J 1/10W		
R158			RK73FB2A223J	CHIP R 22K J 1/10W		
R159-162			RK73FB2A103J	CHIP R 10K J 1/10W		
R163			RK73FB2A334J	CHIP R 330K J 1/10W		
R164			RK73FB2A103J	CHIP R 10K J 1/10W		
R165			RK73FB2A104J	CHIP R 100K J 1/10W		
R166			RK73FB2A183J	CHIP R 18K J 1/10W		
R167,168			RK73FB2A334J	CHIP R 330K J 1/10W		
R169,170			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R171,172			RK73FB2A334J	CHIP R 330K J 1/10W		
R173-175			RK73FB2A103J	CHIP R 10K J 1/10W		
R176-178			RK73FB2A473J	CHIP R 47K J 1/10W		
R179			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R180			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R181			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R182			RK73FB2A103J	CHIP R 10K J 1/10W		
R183			RK73FB2A101J	CHIP R 100 J 1/10W		
R184			RK73FB2A473J	CHIP R 47K J 1/10W		
R187,188			RK73FB2A394J	CHIP R 390K J 1/10W		
R189			RK73FB2A560J	CHIP R 56 J 1/10W		
R191			RK73FB2A103J	CHIP R 10K J 1/10W		
R192			RK73FB2A220J	CHIP R 22 J 1/10W		
R193			RK73FB2A101J	CHIP R 100 J 1/10W		
R194			RK73FB2A471J	CHIP R 470 J 1/10W		
R195			RK73FB2A103J	CHIP R 10K J 1/10W		
R196,197			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R198			RK73FB2A101J	CHIP R 100 J 1/10W		
R199			RK73FB2A471J	CHIP R 470 J 1/10W		
R200			RK73FB2A103J	CHIP R 10K J 1/10W		
R201			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R202			RK73FB2A334J	CHIP R 330K J 1/10W		
R203			RK73FB2A223J	CHIP R 22K J 1/10W		
R205			RK73FB2A103J	CHIP R 10K J 1/10W		
R206			RK73FB2A223J	CHIP R 22K J 1/10W		
R207			RK73FB2A333J	CHIP R 33K J 1/10W		
R208			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R209			RK73FB2A103J	CHIP R 10K J 1/10W		
R210			RK73FB2A333J	CHIP R 33K J 1/10W		
R211			RK73FB2A104J	CHIP R 100K J 1/10W		
R212			RK73FB2A103J	CHIP R 10K J 1/10W		
R215			RK73FB2A103J	CHIP R 10K J 1/10W		
R216			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R217			RK73FB2A333J	CHIP R 33K J 1/10W		

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R218			RK73FB2A103J	CHIP R 10K J 1/10W		
R219			RK73FB2A100J	CHIP R 10 J 1/10W		
R220			RK73FB2A153J	CHIP R 15K J 1/10W		
R221,222			RK73FB2A303J	CHIP R 30K J 1/10W		
R223,224			RK73FB2A103J	CHIP R 10K J 1/10W		
R225,226			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R227,228			RK73FB2A223J	CHIP R 22K J 1/10W		
R229			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R230			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R231			RK73FB2A101J	CHIP R 100 J 1/10W		
R232,233			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R234,235			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R236,237		*	RK73FB2A113J	CHIP R 11K J 1/10W		
R238,239			RK73FB2A821J	CHIP R 820 J 1/10W		
R240,241			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R244,245			RK73FB2A133J	CHIP R 13K J 1/10W		
R246			RK73FB2A473J	CHIP R 47K J 1/10W		
R247			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R248,249			RK73FB2A223J	CHIP R 22K J 1/10W		
R250			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R251			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R252,253			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R254			RK73FB2A101J	CHIP R 100 J 1/10W		
R255,256			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R257,258		*	RK73FB2A113J	CHIP R 11K J 1/10W		
R259,260			RK73FB2A181J	CHIP R 180 J 1/10W		
R261-264			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R265,266			RK73FB2A163J	CHIP R 16K J 1/10W		
R267,268			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R269,270			RK73FB2A224J	CHIP R 220K J 1/10W		
R271			RK73FB2A101J	CHIP R 100 J 1/10W		
R272,273			RK73FB2A100J	CHIP R 10 J 1/10W		
R274-277			RK73FB2A224J	CHIP R 220K J 1/10W		
R278,279			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R280			RK73FB2A470J	CHIP R 47 J 1/10W		
R281,282			RK73FB2A333J	CHIP R 33K J 1/10W		
R283			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R284			RK73FB2A103J	CHIP R 10K J 1/10W		
R285			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R286-290			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R292,293			RK73FB2A223J	CHIP R 22K J 1/10W		
R296-303			RK73FB2A102J	CHIP R 1.0K J 1/10W		
VR1			R12-3100-05	TRIMMING POT.(10K)BEEP LEVEL		
VR2			R12-3097-05	TRIMMING POT.(22K)SEEK ST LVL		
VR3			R12-3096-05	TRIMMING POT.(10K)STOP LEVEL		
VR4 ,5		*	R12-3126-05	TRIMMING POT.(S-METER)		
S1	3D		S31-2100-05	SLIDE SWITCH (PREOUT H/L)		
S2	3D		S31-4010-05	SLIDE SWITCH (MAIN IN)		
D2			DAN202K	DIODE		
D3		*	RD11JS(B2)	ZENER DIODE		
D4			DLS1585	DIODE		
D4			RLS-73	DIODE		
D5			ERA15-01Y1	DIODE		

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D6			DAN202K	DIODE		
D7			ERA15-01Y1	DIODE		
D8			DSM1A1	DIODE		
D9			DAP202K	DIODE		
D10			DLS1585	DIODE		
D10			RLS-73	DIODE		
D11			RD5.1JS(B2)	ZENER DIODE		
D12			DAN202K	DIODE		
D13 ,14			DLS1585	DIODE		
D13 ,14			RLS-73	DIODE		
D15		*	RD9.1JS(B3)	ZENER DIODE		
D17 ,18			DLS1585	DIODE		
D17 ,18			RLS-73	DIODE		
D20 ,21			DLS1585	DIODE		
D20 ,21			RLS-73	DIODE		
D23			DAN202K	DIODE		
D24 ,25			DAP202K	DIODE		
D26 ,27			DLS1585	DIODE		
D26 ,27			RLS-73	DIODE		
D28 -31			ERA15-01Y1	DIODE		
D32			RD5.6JS(B2)	ZENER DIODE		
D33			DLS1585	DIODE		
D33			RLS-73	DIODE		
D35			RD5.1JS(B2)	ZENER DIODE		
D36 -49			DLS1585	DIODE		
D36 -49			RLS-73	DIODE		
D51 -58			DLS1585	DIODE		
D51 -58			RLS-73	DIODE		
D61			ERA15-01Y1	DIODE		
D63			DLS1585	DIODE		
D63			RLS-73	DIODE		
D65 -73			DLS1585	DIODE		
D65 -73			RLS-73	DIODE		
D74			1SS101	DIODE		
D75		*	1SS193	DIODE		
D76			DAN202K	DIODE		
D77			DLS1585	DIODE		
D77			RLS-73	DIODE		
D79			DLS1585	DIODE		
D79			RLS-73	DIODE		
D80			DAN202K	DIODE		
D81 -83			DLS1585	DIODE		
D81 -83			RLS-73	DIODE		
D84 -86			DAN202K	DIODE		
D87 ,88			DLS1585	DIODE		
D87 ,88			RLS-73	DIODE		
D90 ,91			DLS1585	DIODE		
D90 ,91			RLS-73	DIODE		
IC1		*	75108G-604-1B	IC(MICROPROCESSOR)		
IC2			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC3 ,4			UPD4081BG	IC(AND X4)		
IC5			BA3708F	IC(MUSIC TRUCK SENSOR)		
IC6 ,7			UPC4570G2	IC(OP AMP X2)		
IC8			KC-850	IC(ISOLATION AMP)		
IC10			UPD4066BG	IC(BILATERAL SWITCH X4)		

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Q1 ,2			2SC2412K	TRANSISTOR		
Q4			DTC124EK	DIGITAL TRANSISTOR		
Q5			2SC2412K	TRANSISTOR		
Q6			DTC124EK	DIGITAL TRANSISTOR		
Q9			2SB1015	TRANSISTOR		
Q10			2SC2412K	TRANSISTOR		
Q11			2SB822F	TRANSISTOR		
Q12 ,13			2SC2412K	TRANSISTOR		
Q14 ,15			2SA1037K	TRANSISTOR		
Q16			2SB822F(Q,R)	TRANSISTOR		
Q17			2SC2412K	TRANSISTOR		
Q18			2SB822F	TRANSISTOR		
Q19			2SC2412K	TRANSISTOR		
Q20			2SB822F	TRANSISTOR		
Q21			2SC2412K	TRANSISTOR		
Q22			2SA1037K	TRANSISTOR		
Q23			2SB1015	TRANSISTOR		
Q24 ,25			2SC2412K	TRANSISTOR		
Q26			DTA144EK	DIGITAL TRANSISTOR		
Q27 ,28			DTC124EK	DIGITAL TRANSISTOR		
Q29			2SA1037K	TRANSISTOR		
Q30 -32			2SC2412K	TRANSISTOR		
Q33 -36			2SB822F	TRANSISTOR		
Q37 ,38			2SC2412K	TRANSISTOR		
Q39 -41			2SB822F	TRANSISTOR		
Q42			DTC124EK	DIGITAL TRANSISTOR		
Q43 -45			2SD1330	TRANSISTOR		
Q46			DTC124EK	DIGITAL TRANSISTOR		
Q47			2SC2412K	TRANSISTOR		
Q48			DTA144EK	DIGITAL TRANSISTOR		
Q49			2SA1037K	TRANSISTOR		
Q50 -52			2SC2412K(S)	TRANSISTOR		
Q53			2SA1037K	TRANSISTOR		
Q54			2SC2412K(S)	TRANSISTOR		
Q55			2SA1037K	TRANSISTOR		
Q56 ,57			2SC2412K	TRANSISTOR		
Q58 -69			DTA144EK	DIGITAL TRANSISTOR		
Q70 ,71			DTC124EK	DIGITAL TRANSISTOR		
Q72 ,73			2SB822F	TRANSISTOR		
Q74			DTC124EK	DIGITAL TRANSISTOR		
Q75			2SA1036K	TRANSISTOR		
Q76			DTA144EK	DIGITAL TRANSISTOR		
Q79			DTC124EK	DIGITAL TRANSISTOR		
Q80			2SK669	FET		
Q81 -85			2SC2412K(S)	TRANSISTOR		
Q86			2SC2412K	TRANSISTOR		
Q88 ,89			DTA144EK	DIGITAL TRANSISTOR		
Q90			DTC143TK	DIGITAL TRANSISTOR		
Q91			DTC144EK	DIGITAL TRANSISTOR		
Q94 ,95			DTC144EK	DIGITAL TRANSISTOR		
Q96			DTC124EK	DIGITAL TRANSISTOR		
Q97 ,98			DTC144EK	DIGITAL TRANSISTOR		
Q99 ,100			2SC2412K	TRANSISTOR		
271	3D		W02-0766-05	TUNER ASSY		

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SWITCH UNIT (X25-2952-70: E,T, 2-72: EF)						
D1			B30-1130-05	LED(SLH-38VC3)		
D6 ,7	3C	*	B30-1191-05	LED		
D9 -21	3C	*	B30-1191-05	LED		
LCD1	3C	*	B38-0099-05	LIQUID CRYSTAL		
PL1 ,2	3C	*	B30-1186-05	LAMP		
PL3 ,4	3C	*	B30-1187-05	LAMP		
PL5 -7	3C	*	B30-1189-05	LAMP		
PL8 -10	3C	*	B30-1188-05	LAMP		
C1		*	C91-0755-05	CERAMIC 680PF K		
C2		*	C91-0768-05	CERAMIC 0.0082UF M		
S5	3C		S40-1096-05	PUSH SWITCH (LOUD)		
S7 -28	3C		S40-1096-05	PUSH SWITCH		
IC1		*	LC7582	IC(LCD DRIVER)		
TUNER ASS'Y (W02-0766-05)						
D1 -4			1SS110	DIODE		
D1 -4			1SS53	DIODE		
D1 -4			1S1555	DIODE		
D5 -7			SVC321	DIODE		
D5 -7			1SV149	DIODE		
FET1			2SK163	FET		
FET2			2SK184	FET		
TR1 -5			2SC2620	TRANSISTOR		
TR1 -5			2SC2714	TRANSISTOR		
TR1 -5			2SC2814	TRANSISTOR		
FM FRONT-END ASS'Y (W02-0768-05)						
D1			1SV172	DIODE		
D2 -5			1SV103	DIODE		
FET1			3SK126	FET		
SCREW SET (N99-0099-05)						
-			N09-0335-05	SCREW (Ø5X16)		
-			N09-0366-05	HEX SCREW (M5X20)		
-			N10-1050-46	HEX NET (M5)		
-			N14-0117-05	FLUNGE NUT (M5)		
CASSETTE MECHANISM ASS'Y (D40-0567-05)						
4	3A		D03-0249-08	REEL DISK ASSY		
5	3B		D10-1587-08	LEVER ASSY (FR ARM)		
6	1A		D10-1588-08	LEVER ASSY (P.R ARM)F		
7	1B		D10-1589-08	LEVER ASSY (P.R ARM)R		
8	3A		D10-1590-18	LEVER ASSY (POWER ARM)		
9	2A		D10-1591-08	LEVER ASSY (MODE PLATE)		
10	1B		D10-1606-08	LEVER ASSY (SELECT ARM)		
11	1B		D10-1691-08	LEVER ASSY (POWER PLATE)		
12	1B		D10-1608-08	LEVER ASSY (CHIP ARM)		
13	2A		D10-1592-08	LEVER ASSY (T CRANK)		
14	2B		D10-1593-08	LEVER ASSY (TIMING ARM)		
15	1A		D10-1594-08	ARM (HOUSING ARM)		
16	3A		D13-0322-08	GEAR ASSY (REEL PUSH)		
17	3B		D13-0321-08	GEAR ASSY (FF GEAR)		
18	2B		D13-0323-08	GEAR ASSY (RVS GEAR)		
19	2B		D13-0324-08	GEAR ASSY (EJ GEAR)		
20	3B		D01-0083-08	FLYWHEEL ASSY		

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21	3A		D15-0240-08	PULLEY ASSY (TENSION PULLEY		
22	3B		D10-1690-08	ARM		
25	2B		D10-1595-08	LEVER (RVS PLATE)		
26	2A		D10-1596-08	LEVER (FF PLATE)		
27	2A		D10-1597-08	LEVER (BRAKE PLATE)F		
28	2B		D10-1598-08	LEVER (BRAKE PLATE)R		
29	2A		J19-2620-08	BRACKET (PLUNGER)AT		
30	2B		J19-2621-08	BRACKET (PLUNGER)B		
31	2B		D10-1609-08	ARM (TRIGGER PLATE)		
32	3B		D10-1689-08	ARM (RVS TRIGGER)		
33	2B		D10-1611-08	LEVER (EJ PLATE)		
34	2B		D10-1612-08	LEVER ASSY (RESET PLATE)		
35	1B		J19-2624-08	BRACKET		
36	1B		D10-1688-08	ARM (ADJUSTER)		
37	1A		G02-0383-08	PLATE SPRING		
38	1A		J19-2622-08	HOLDER (CASSETTE HOSING		
39	3B		D10-1600-08	ARM (GEAR SHAFT GUIDE		
40	1A	*	J19-2876-08	BRACKET (TRO)		
41	1A		D10-1601-08	ARM (OVER CENTER PLATE		
42	2B		D10-1613-08	LEVER (SLIDE PLATE)		
43	2A		D10-1602-08	SLIDER (PLUNGER BUFFER		
45	2A		D10-1603-08	ARM (FF CRANK)		
46	1B		D10-1604-08	ARM (AZIMUTH ARM)		
47	1B		D14-0137-08	ROLLER (H/P) C		
48	1A		J90-0162-08	GUIDE (CATCH)		
49	1A		D14-0138-08	ROLLER (H/A)		
50	3A,3B		D13-0318-08	GEAR (IDLER)		
51	3A		B09-0056-08	CAP (REEL DRIVER)		
52	3A		D13-0319-08	GEAR (Ø15.2)		
53	3B		D13-0320-08	GEAR (INPUT)		
54	2B		D13-0325-08	GEAR (A)		
55	3B		D13-0326-08	GEAR (B)		
56	3B		D13-0327-08	GEAR (C)		
57	3B		D13-0328-08	GEAR (MODE)		
59	2A	*	J32-0320-08	STUD		
60	2A		D14-0139-08	ROLLER (TIMING/A)		
62	2A		D14-0140-08	ROLLER (H/P ROLLER) A		
63	2A		D14-0141-08	ROLLER (H/P ROLLER) B		
64	2B		D14-0142-08	ROLLER (MODE)		
65	2B		J30-0214-08	SPACER		
67	1A,1B		N09-1583-08	SCREW		
69	3B		G01-1860-08	TENSION SPRING		
70	1A		G01-1794-08	TORSION SPRING (P.R ARM) F		
71	1B		G01-1795-08	TORSION SPRING (P.R ARM) R		
72	1A		G01-1796-08	TENSION SPRING (H/P)		
73	2B		G01-1797-08	TENSION SPRING (IDLER)		
74	3A		G01-1798-08	TORSION SPRING (FF ARM)		
75	2A,2B		G01-1799-08	TENSION SPRING (BRAKE)		
76	2B		G01-1805-08	TORSION SPRING (TRIGGER)		
77	3B		G01-1806-08	TENSION SPRING (RVS/T)		
78	1B		G01-1807-08	TENSION SPRING (CHIP ARM)		
79	2B		G01-1808-08	TENSION SPRING (STARTER)		
80	2B		G01-1809-08	TENSION SPRING (EJ/P)		
81	2B		G01-1810-08	TENSION SPRING (RESET/P)		
82	3A		G01-1793-08	COMPRESSION SPRING (SLEEVE)		

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83	1B		G01-1800-08	COMPRESSION SPR(AZIMUTH LOCK)		
84	2A		G01-1801-08	TENSION SPRING (POWER)		
85	2B		G01-1802-08	TORSION SPRING (TIMING ARM)		
86	1A		G01-1803-08	TORSION SPRING (REVERSE)		
87	1B		G01-1823-08	TENSION SPRING		
88	2A		G01-1804-08	TENSION SPRING (BUFFER)		
89	2A		G11-1145-08	CUSHION (CH)		
90	3B		D16-0127-08	BELT		
91	1A		D10-1605-08	ROD (OVER CENTER ROD		
92	1B		N09-1584-08	SCREW (AZIMUTH)		
93	2A		J30-0213-08	SPACER (T)		
94	1B		G11-1144-08	SOFT TAPE		
95	1A		T43-0047-08	MOTOR ASSY		
96	1A		T31-0032-08	PLAYBACK HEAD		
103	1B,2B		T94-0094-08	SOLENOID (PLUNGER)		
104	2A		T94-0092-08	SOLENOID (PLUNGER)		
105	2A		T94-0093-08	SOLENOID (PLUNGER)		
110	1B		N09-1585-08	SCREW (M1.7X7)		
111	2A		N09-1586-08	SCREW (M2X5.5)		
112	3A,1B		N09-1587-08	SCREW (M2X3)		
113	2B		N09-1588-08	SCREW (M2X5)		
115	1A,2A		N09-1589-08	SCREW (M2X4)		
116	2B		N09-1590-08	SCREW (M2X5)		
120	2A,3B		N24-3012-41	E TYPE RETAINING RING (Ø1.2)		
121	2A,2B		N24-3015-41	E TYPE RETAINING RING (Ø1.5)		
122	2A,2B		N29-0097-08	E TYPE RETAINING RING(Ø1.6X3.5		
123	1A		N24-3025-41	E TYPE RETAINING RING (Ø2.5)		
124	3A,1B		N24-3030-41	E TYPE RETAINING RING (Ø3)		
130	3A,3B		N19-0374-05	FLAT WASHER (Ø1.2X3X.25)		
131	3A,3B		N19-0375-05	FLAT WASHER (Ø1.6X3.2X.25)		
132	3B		N19-0987-08	FLAT WASHER (Ø1.6X3.2X.5)		
133	2B,3B		N19-0988-08	FLAT WASHER (Ø2.1X3.5X.25)		
134	3A,3B		N19-0989-08	FLAT WASHER (Ø2.1X4X.25)		
135	3A		N19-0990-08	FLAT WASHER (Ø2.1X4X.25)		
136	2A	*	N19-1103-08	FLAT WASHER (Ø2.1X4X.5)		
137	3B	*	N19-1102-08	FLAT WASHER (Ø2.1X3.5X.4)		
138	3A,3B	*	N19-1104-08	FLAT WASHER (Ø2.1X3.5XO.4)		
143	3A		T95-0034-08	PHOTO REFLECTOR		
146	1A	*	J31-0813-08	CALLER		
150	3A	*	D03-0263-08	REEL DISK ASSY		
151	1B	*	J25-5728-08	PRINTED WIRING BOARD		
152	2B		A11-0191-08	SUB CHASSIS ASSY		
-			J61-0077-08	WIRE BAND		
-		*	J61-0082-08	WIRE BAND		
S1	1B		S46-1078-08	LEAF SWITCH (MLS-4)		
S2	1B		S31-4020-08	SLIDE SWITCH (HEAD)		
S3	1B		S46-1077-08	LEAF SWITCH (MLS-2)		

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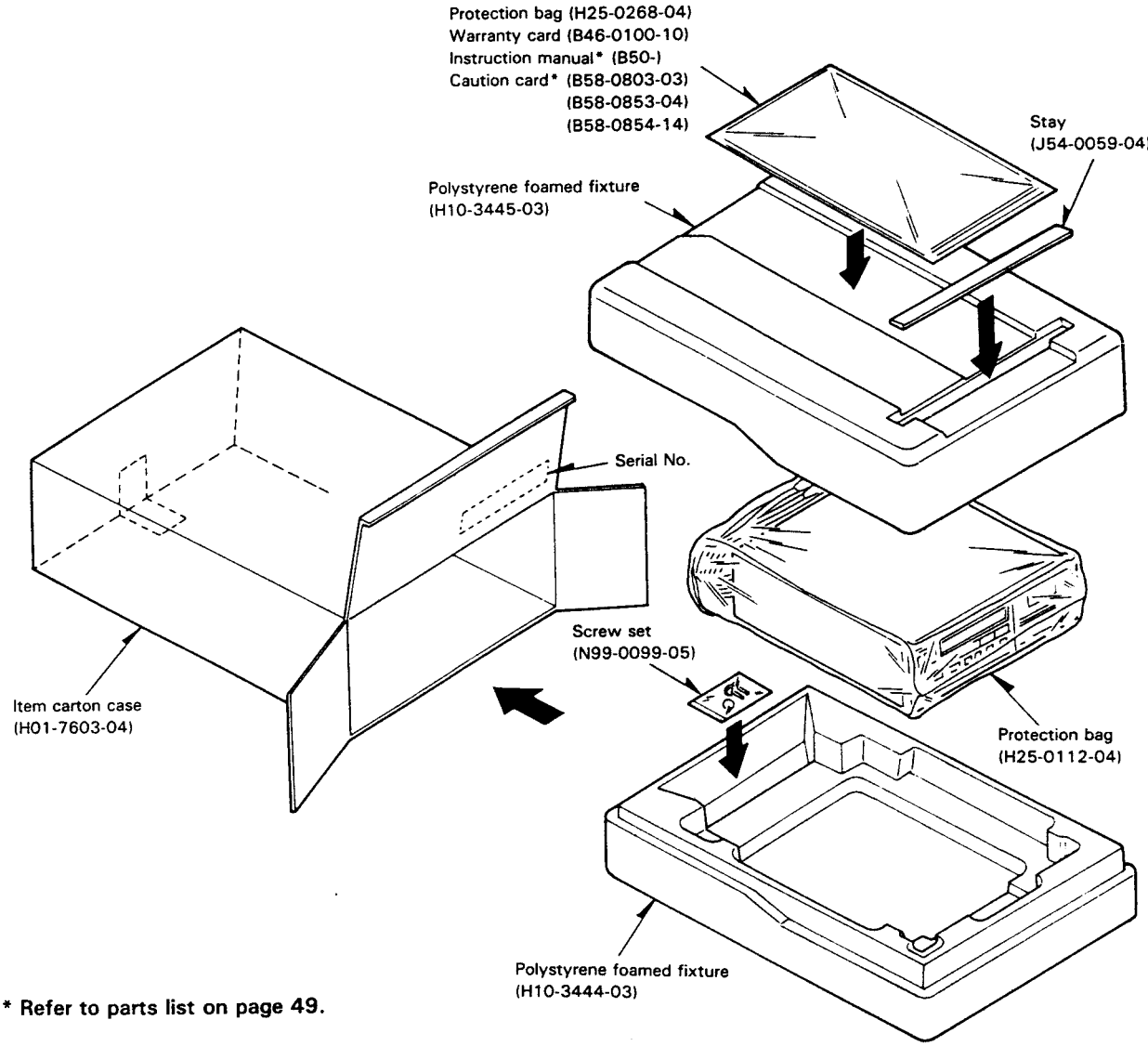
PACKING



* Refer to parts list on page 49.

KRC-868D

SPECIFICATIONS

Specification subject to change without notice.

FM Tuner Section

Frequency Range	87.5 ~ 108.0 MHz
Usable Sensitivity (DIN)	1.1 μV/75 ohms
Stereo Sensitivity (S/N = 46 dB)	1.6 μV/75 ohms
Frequency Response (±4.5 dB)	30 ~ 15,000 Hz
Signal to Noise Ratio (IEC-A)	70 dB
Selectivity (DIN)	70 dB
Stereo Separation (1 kHz)	40 dB
19 kHz Carrier Leakage	50 dB

MW Tuner Section

MW Frequency Range	531 ~ 1,611 kHz
MW Usable Sensitivity	30 μV

LW Tuner Section

LW Frequency Range	153 ~ 281 kHz
LW Usable Sensitivity	60 μV

Cassette Deck Section

Tape Speed	4.76 cm/s
Wow and Flutter (WRMS)	0.12% (WRMS)
Wow and Flutter (DIN)	0.2% (W-PEAK)
Fast Winding Time (C-60)	100 sec
Frequency Response (120 μs)	30 Hz ~ 16 kHz (+4 dB, −6 dB)
(70 μs)	30 Hz ~ 18 kHz (+4 dB, −6 dB)
Stereo Separation (1 kHz)	40 dB
Signal to Noise Ratio (IEC-A)	
NR OFF	55 dB
Dolby-B	65 dB
Dolby-C	72 dB

Audio Section

Maximum Output Power (1 kHz, 4 ohms)	20 W + 20 W
Rated Output Power (10% THD, 1 kHz, 4 ohms)	15 W + 15 W
(1% THD, 1 kHz, 4 ohms)	10 W + 10 W
Tone Action	Bass: 100 Hz ±10 dB
	Treble: 10 kHz ±10 dB
Preout Level/Impedance	Normal: 300 mV/180 ohms
	High: 1,000 mV/180 ohms

General

Operating Voltage (GND)	14.4 V (11 ~ 16 V)
Current Consumption	4.5 A at Rated Power
Dimensions (W x H x D)	188 x 58 x 177 mm
	(7-3/8 x 2-5/16 x 6-15/16 in.)
Body Size (W x H x D)	182 x 52 x 159 mm
	(7-3/16 x 2-1/16 x 6-1/4 in.)
Weight	2.1 kg (4.6 lb)

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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